

Fig. 1

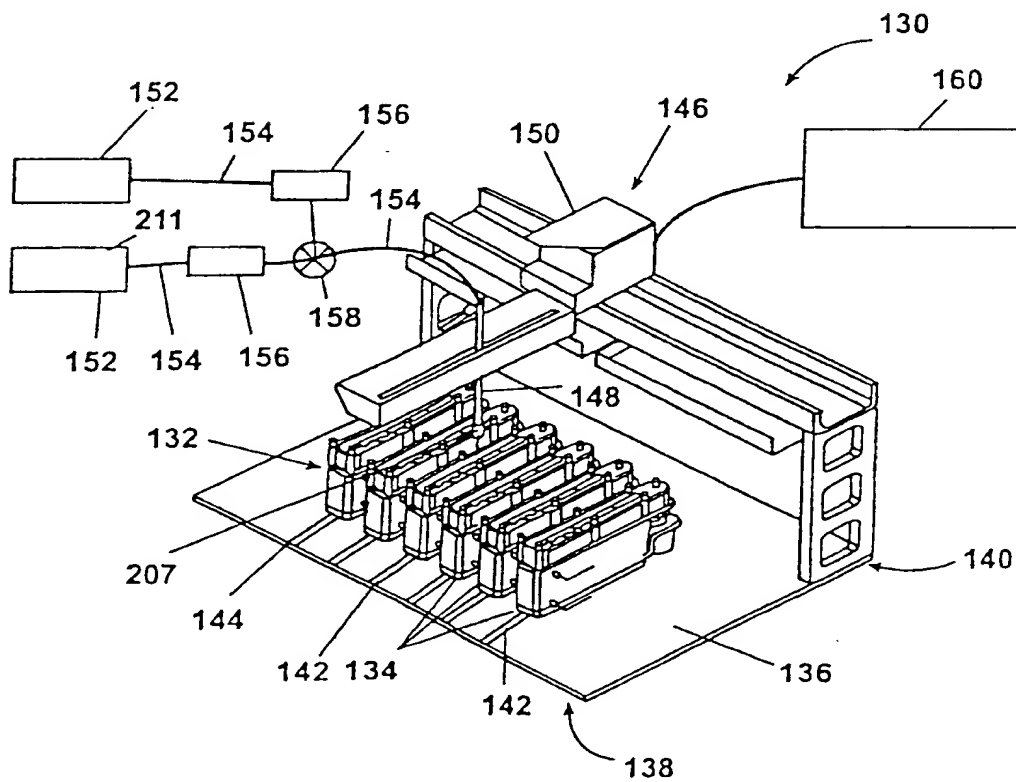


Fig. 2

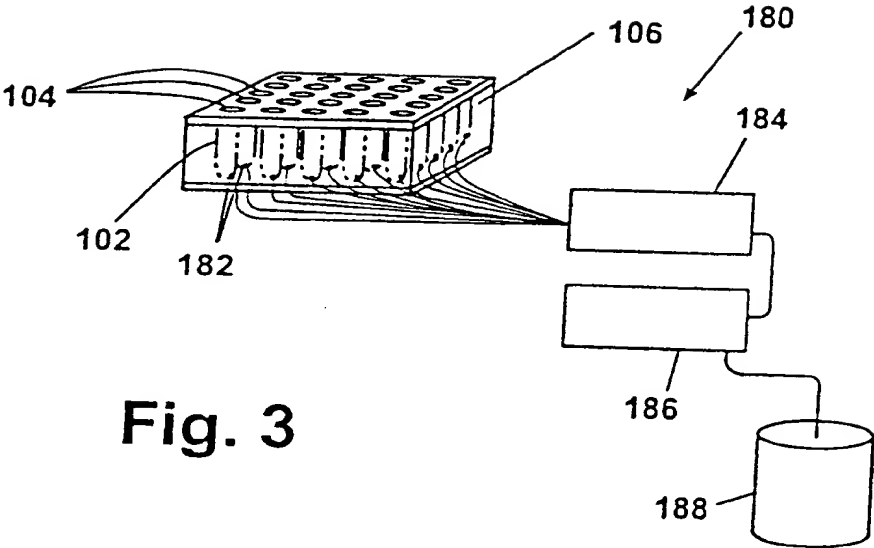


Fig. 3

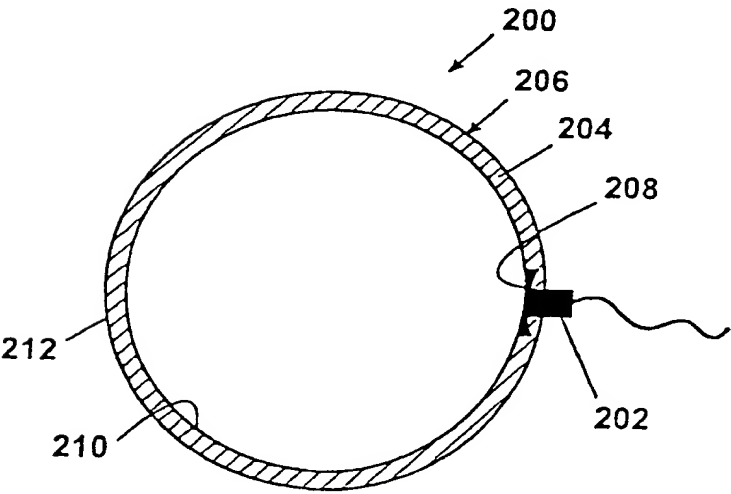
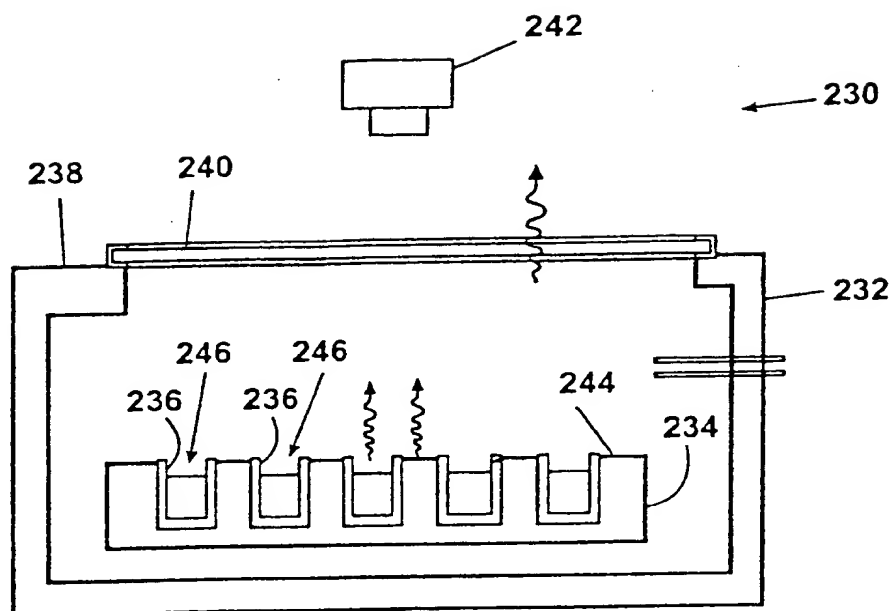
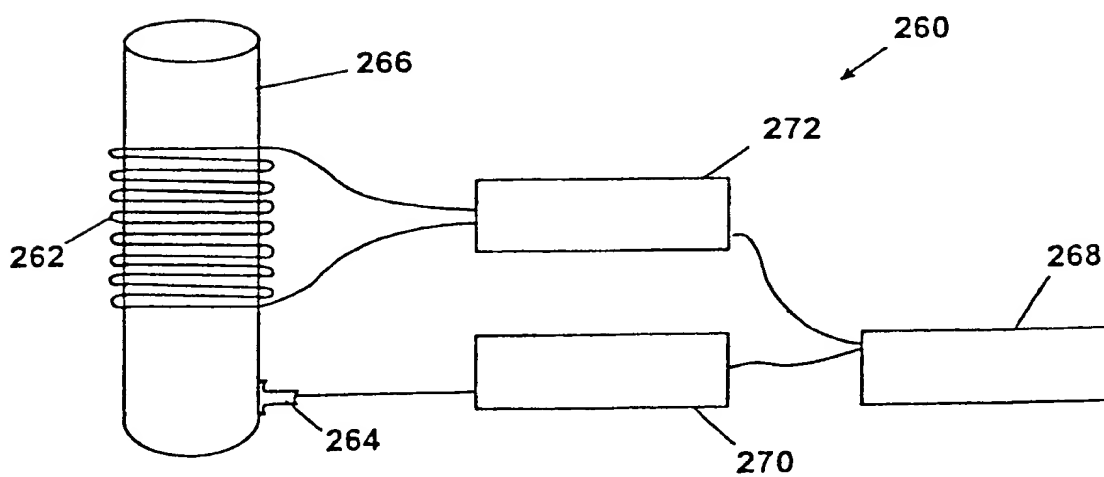


Fig. 4

**Fig. 5****Fig. 6**

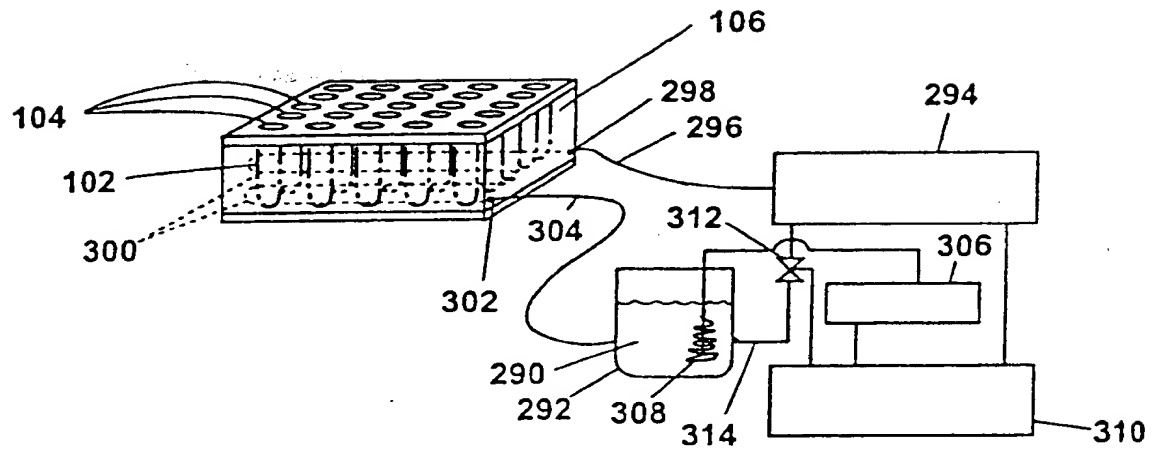


Fig. 7

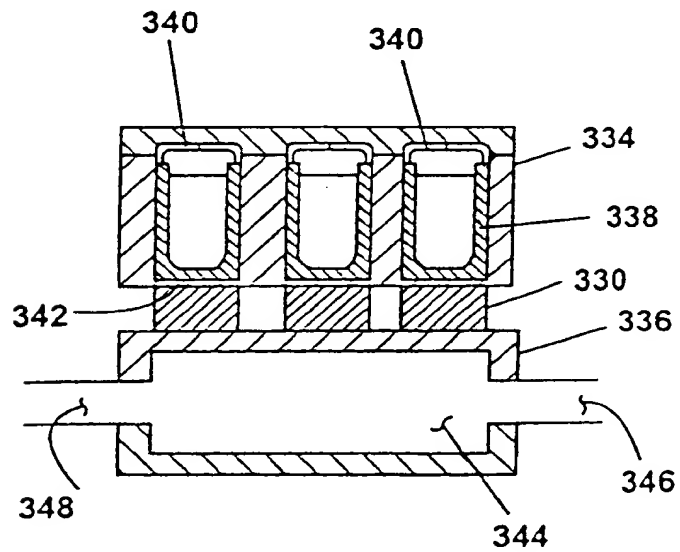


Fig. 8

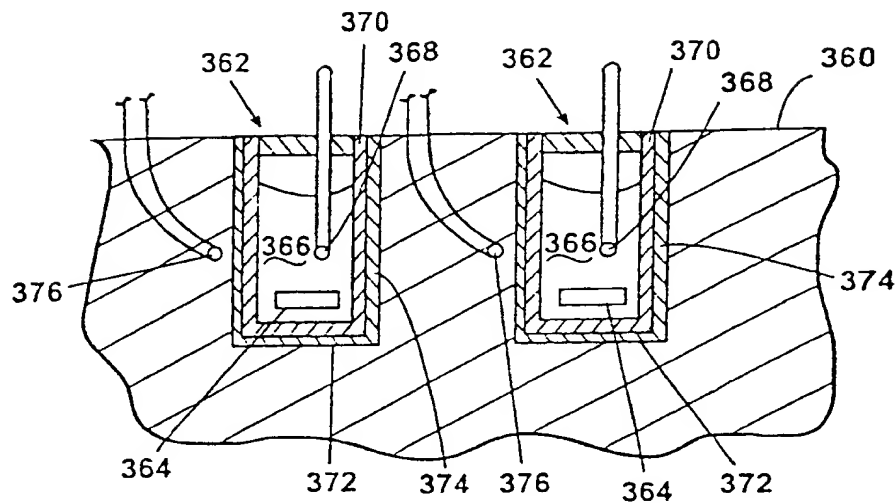


Fig. 9

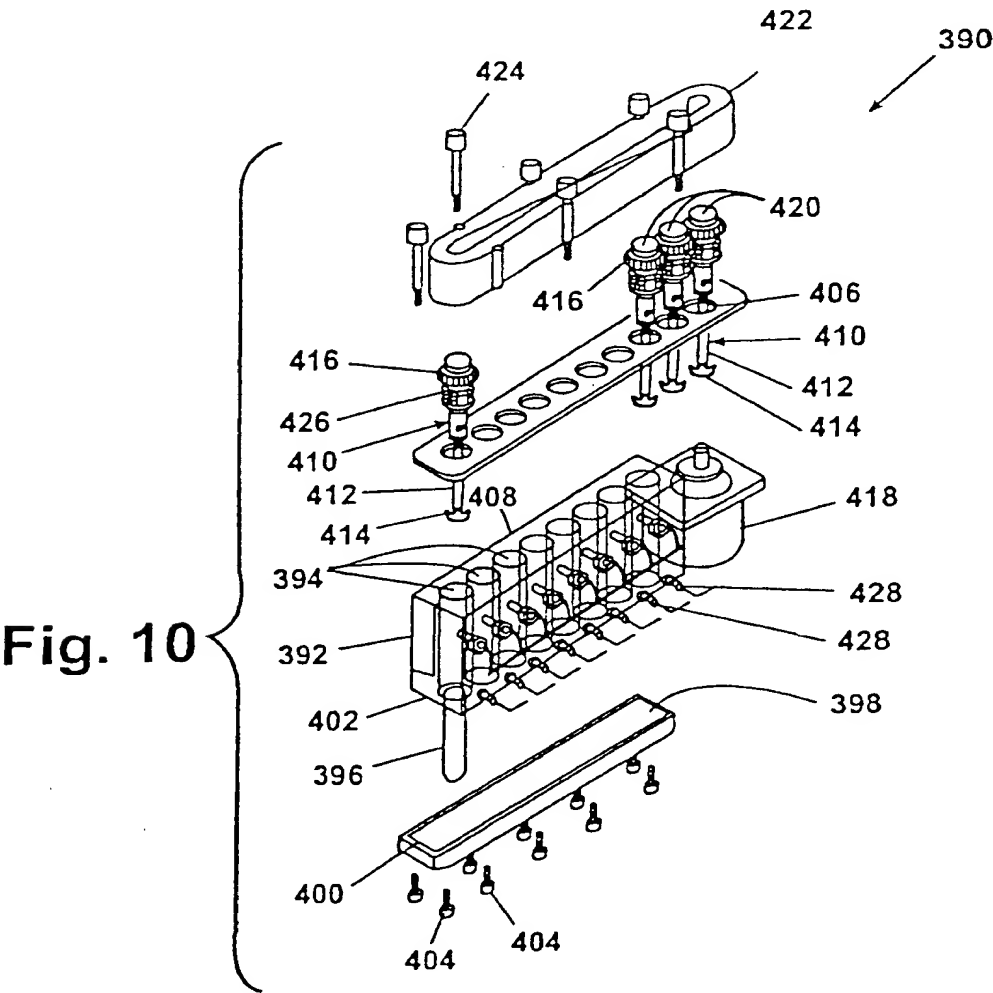


Fig. 10

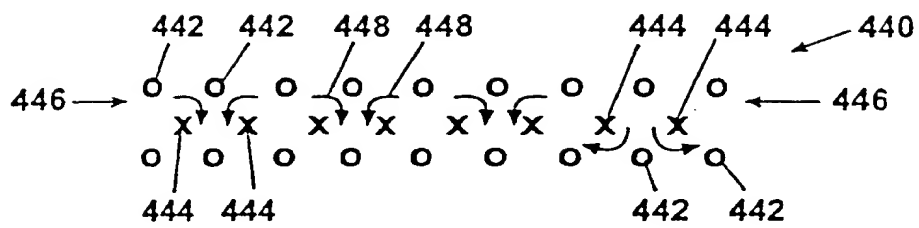


Fig. 11

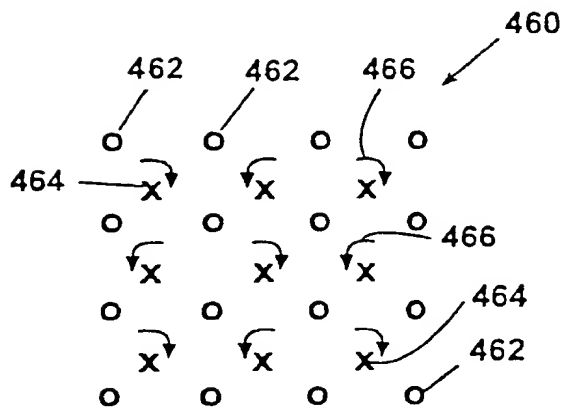


Fig. 12

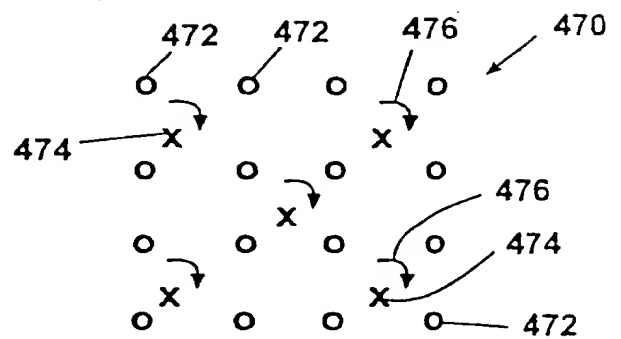


Fig. 13

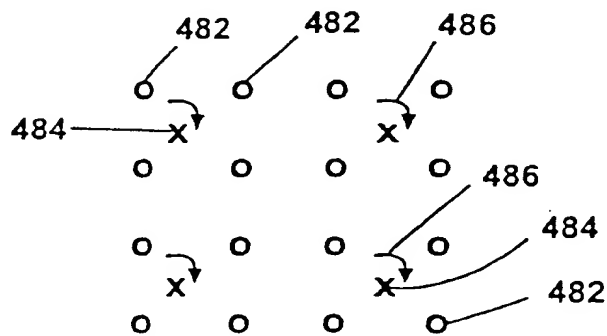
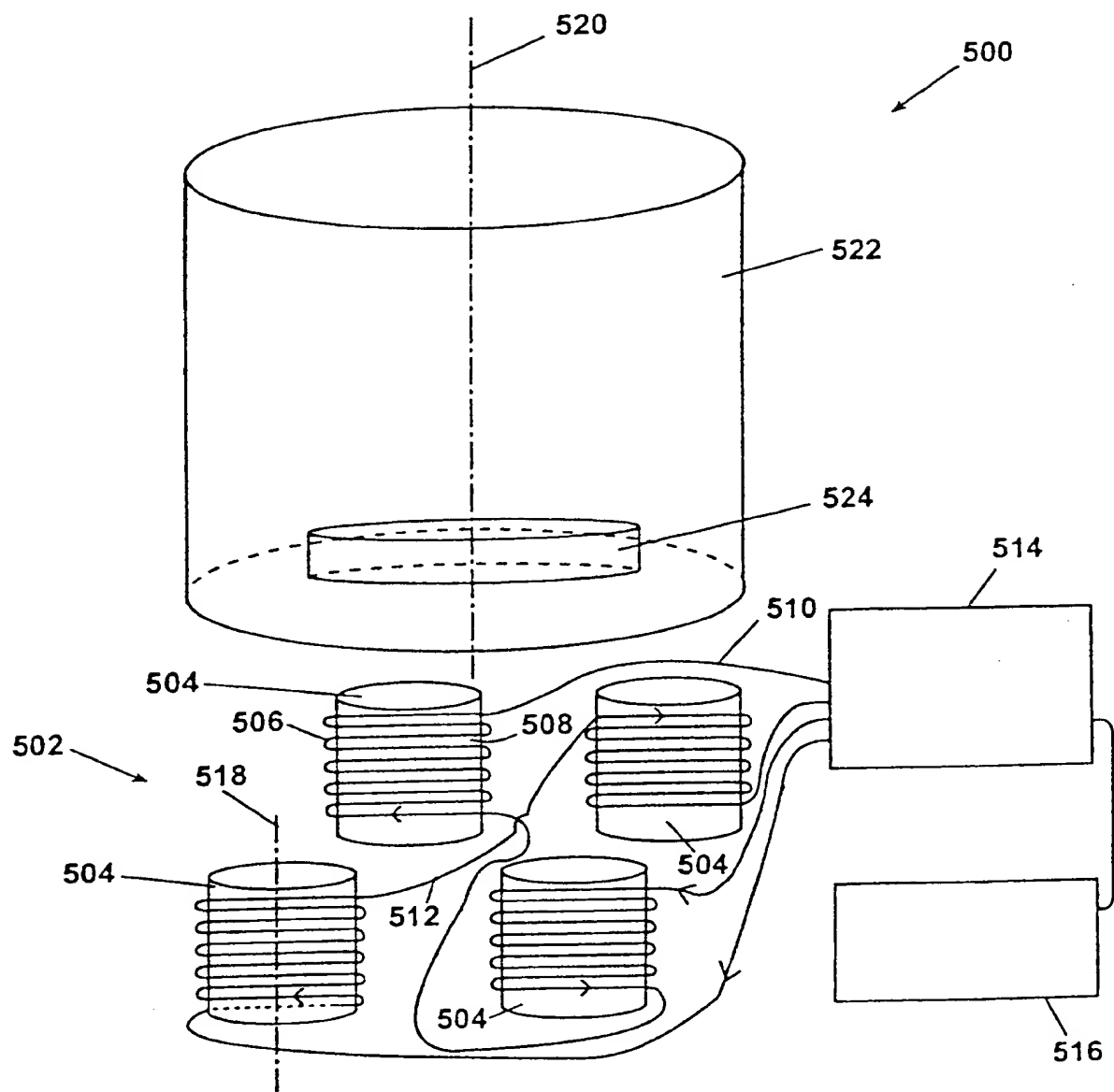


Fig. 14

**Fig. 15**

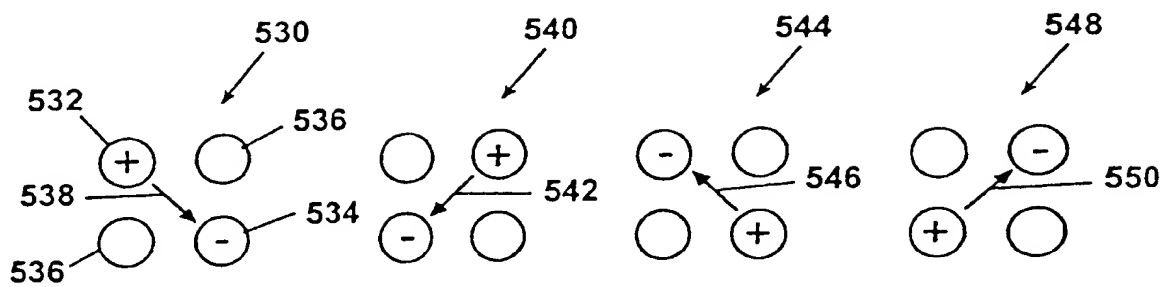


Fig. 16

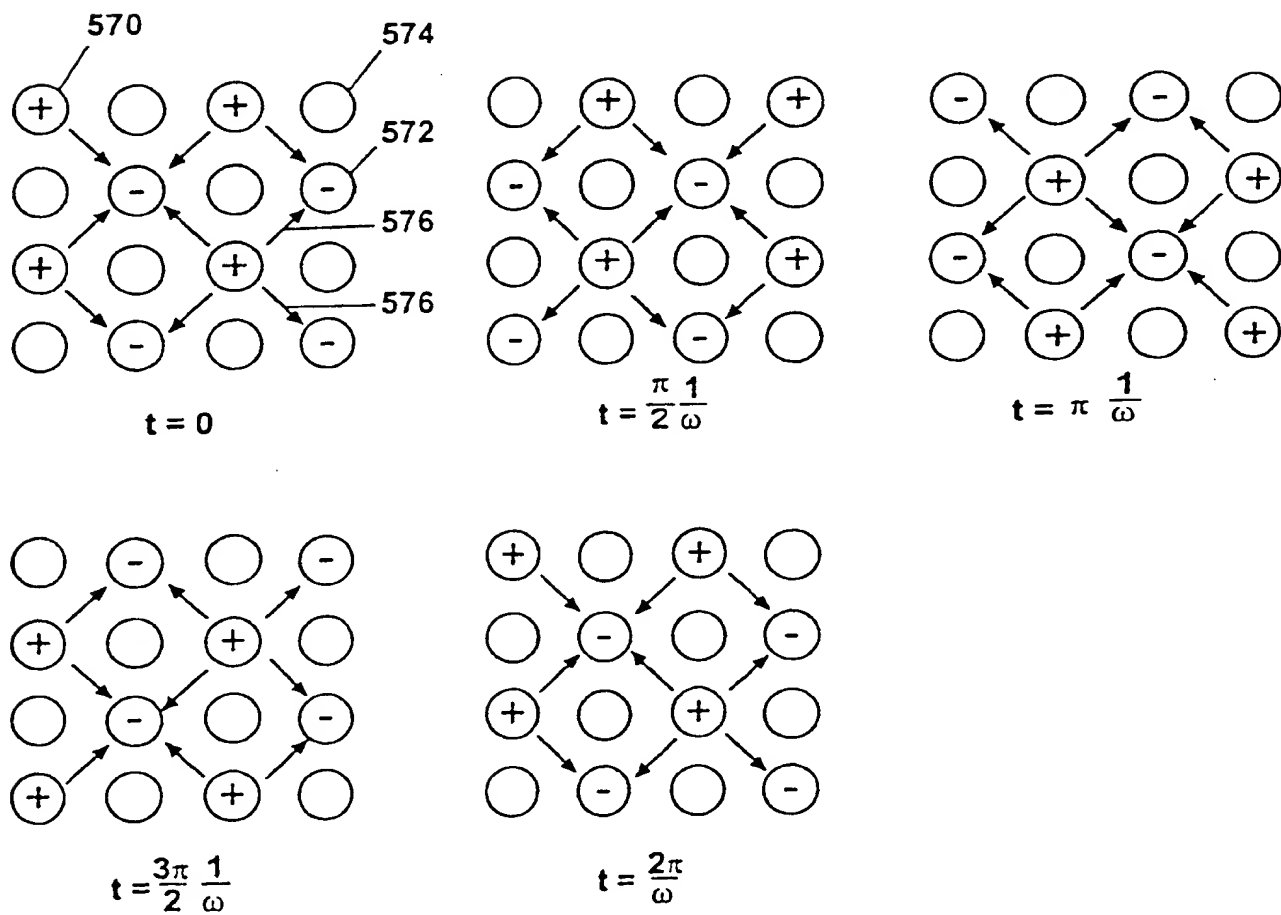


Fig. 17



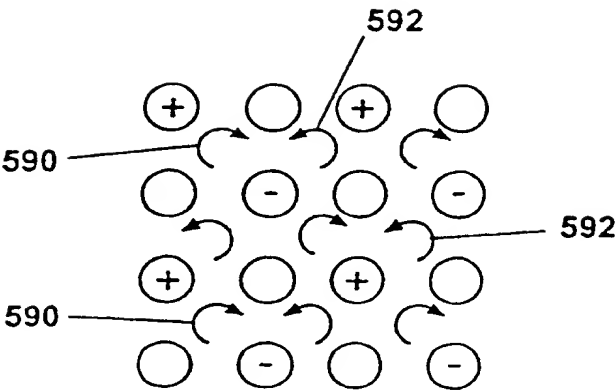


Fig. 18

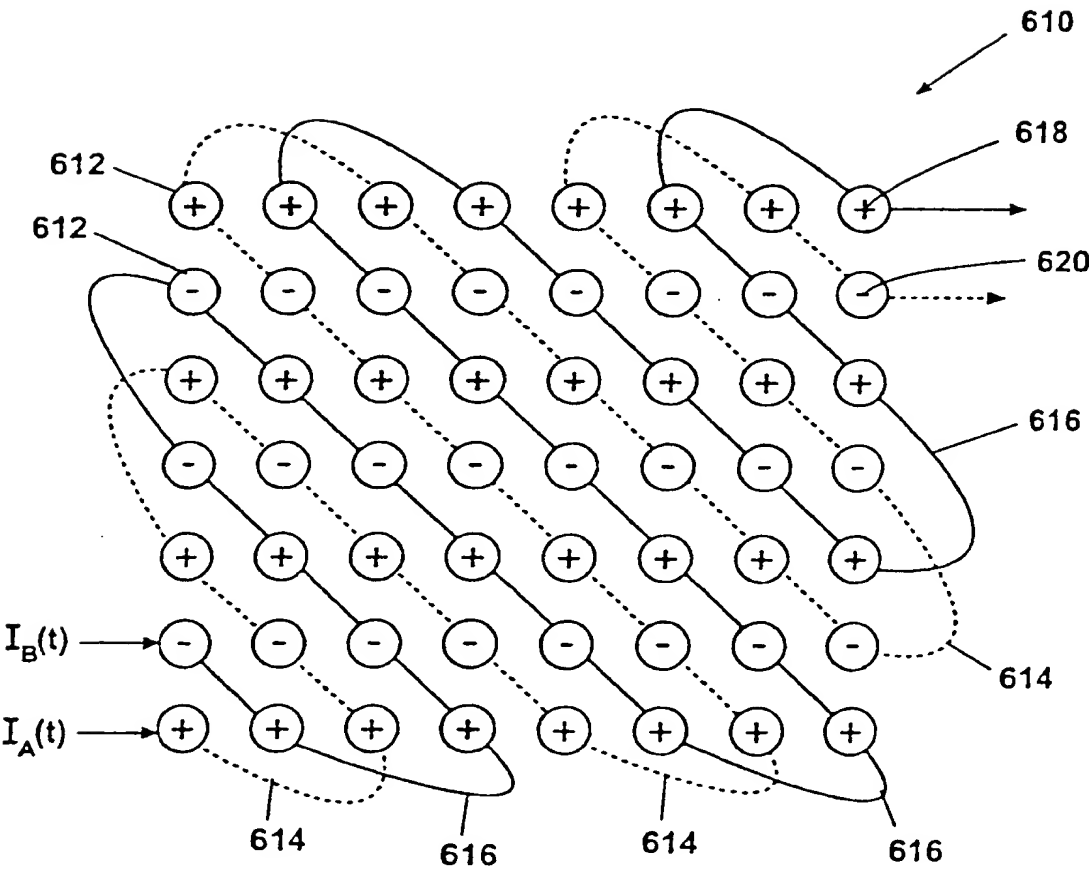


Fig. 19

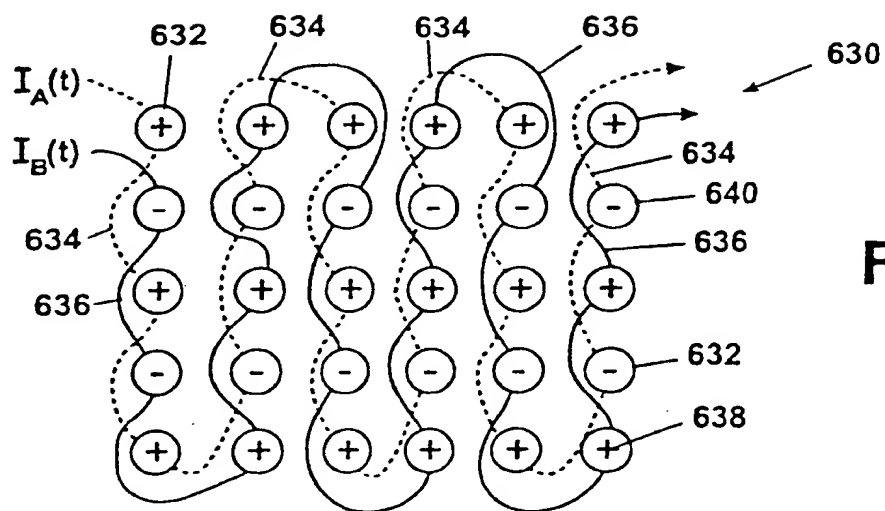


Fig. 20

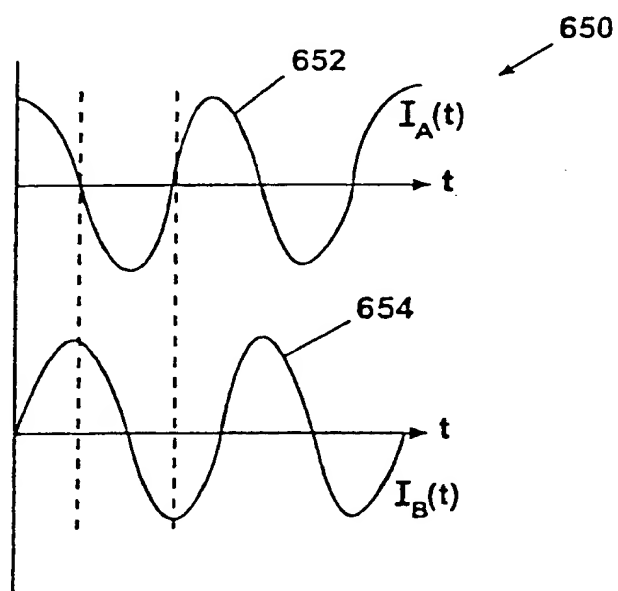


Fig. 21

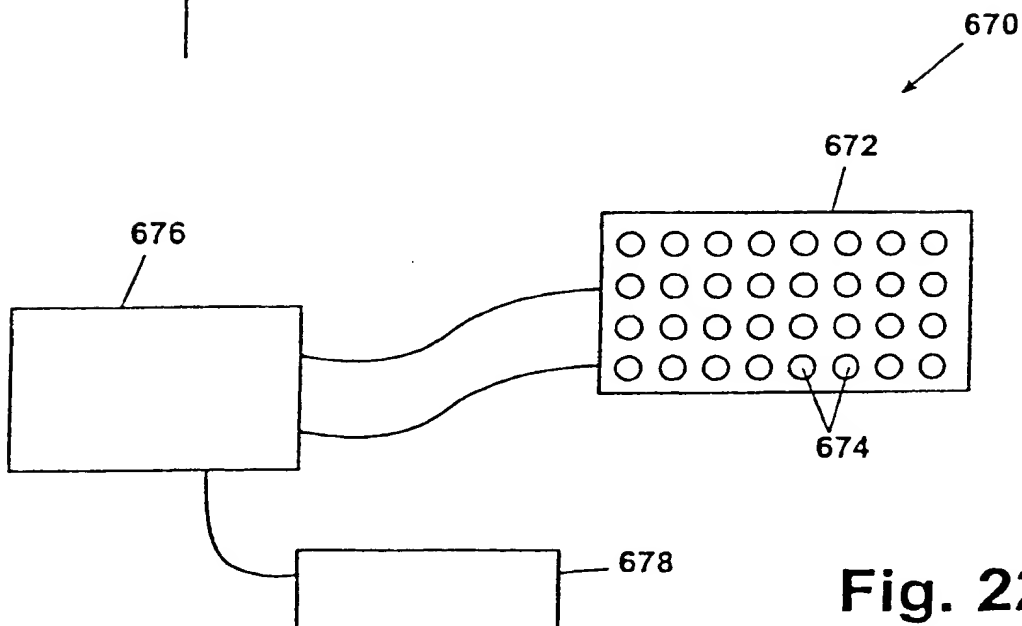
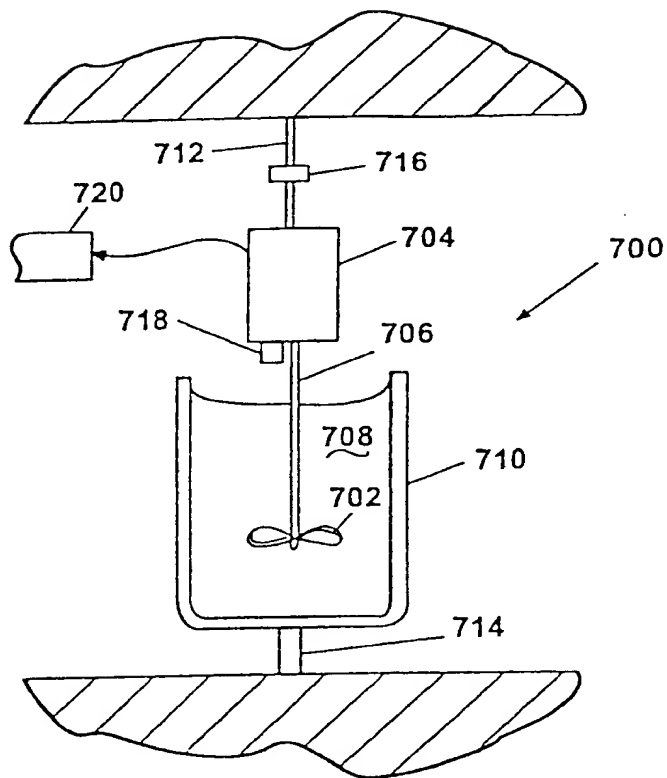
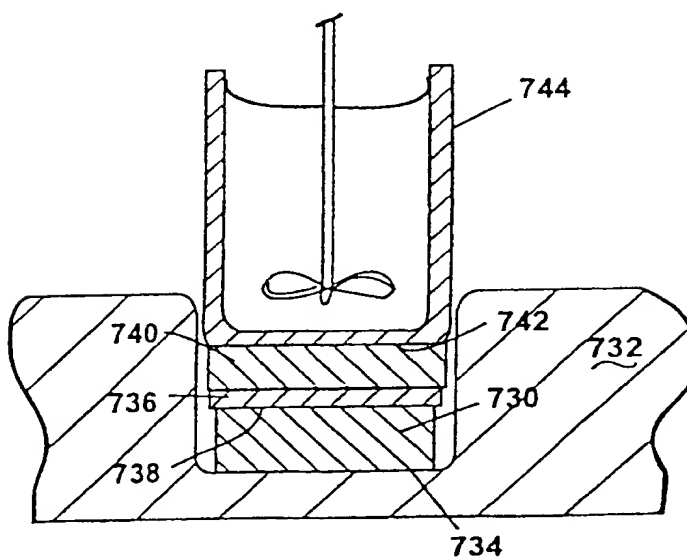


Fig. 22

**Fig. 23****Fig. 24**

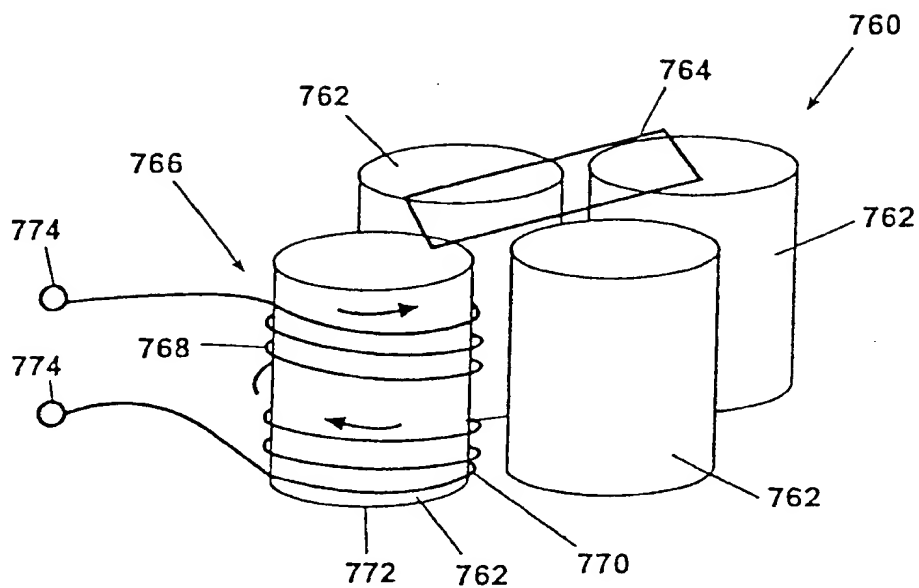


Fig. 25

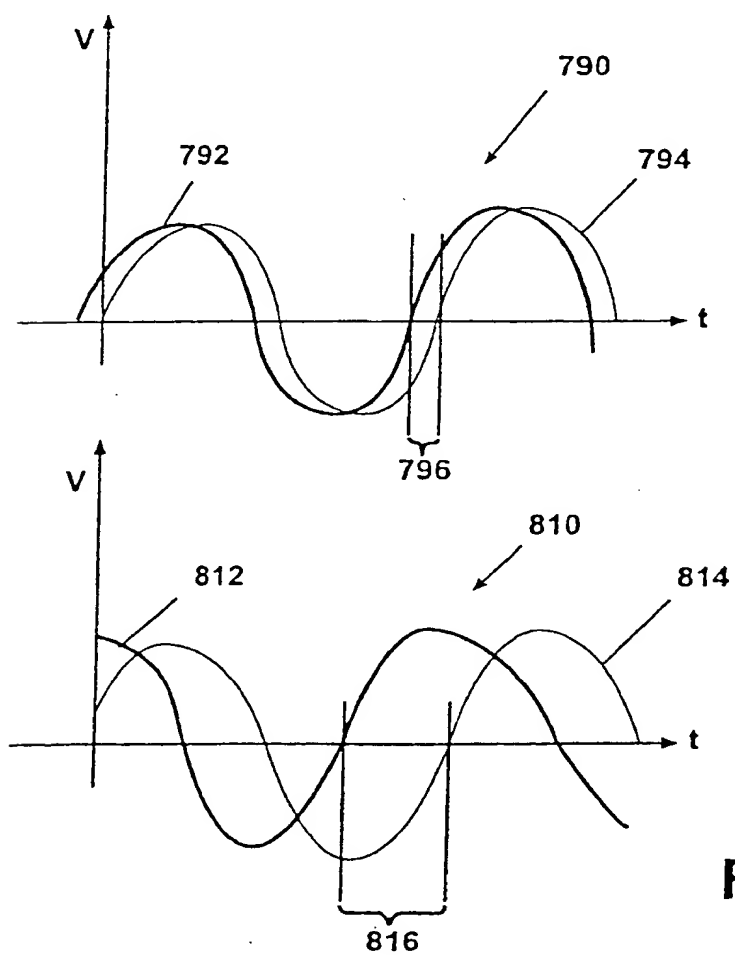


Fig. 26

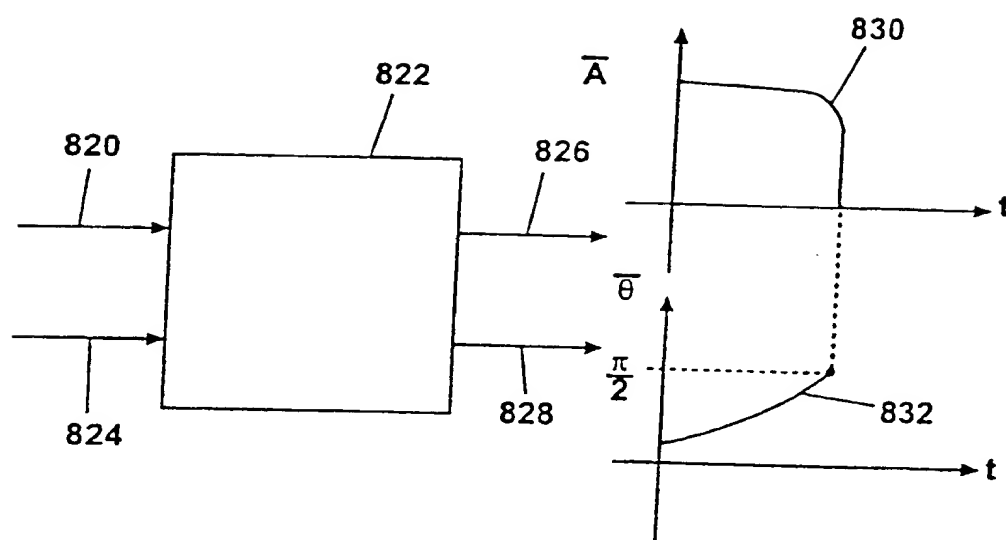


Fig. 27

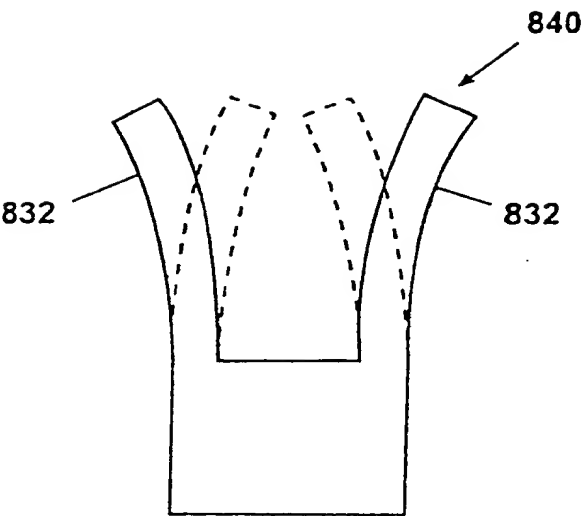


Fig. 28

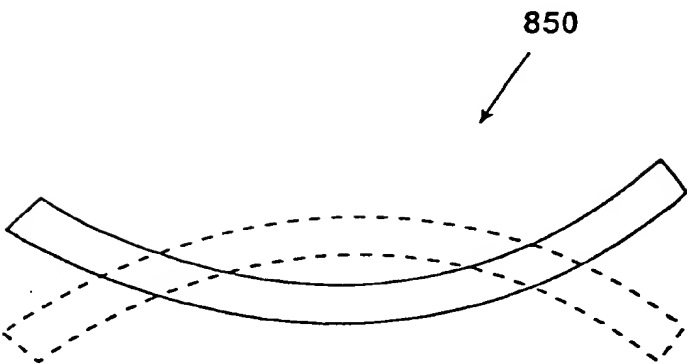
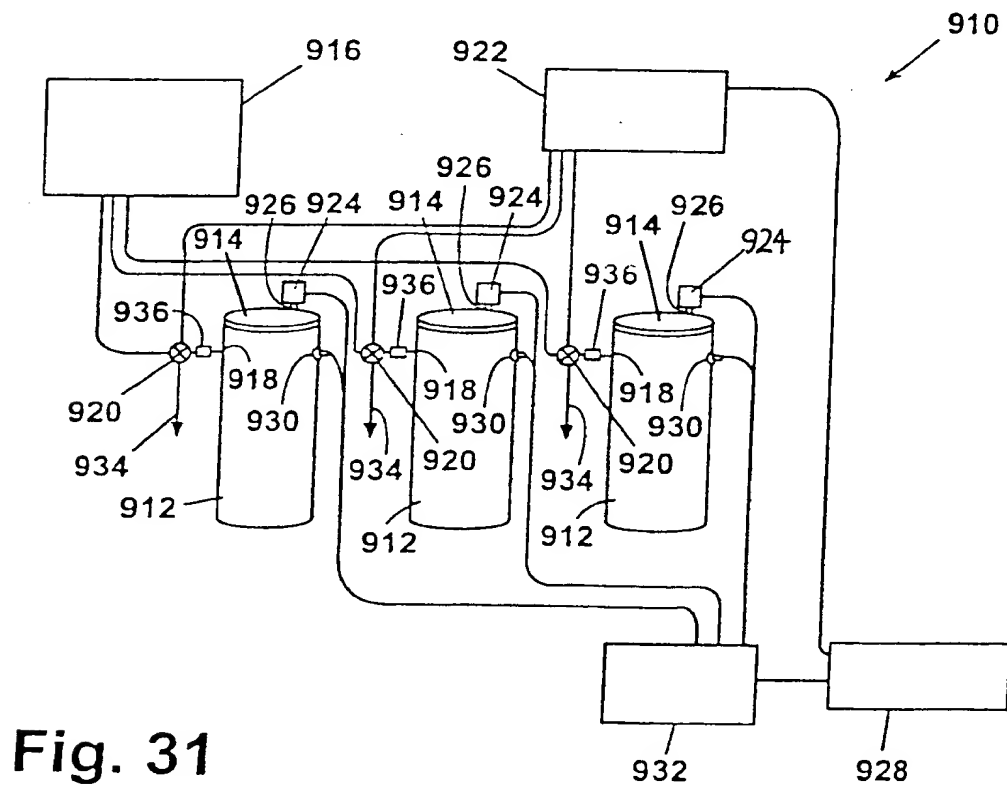
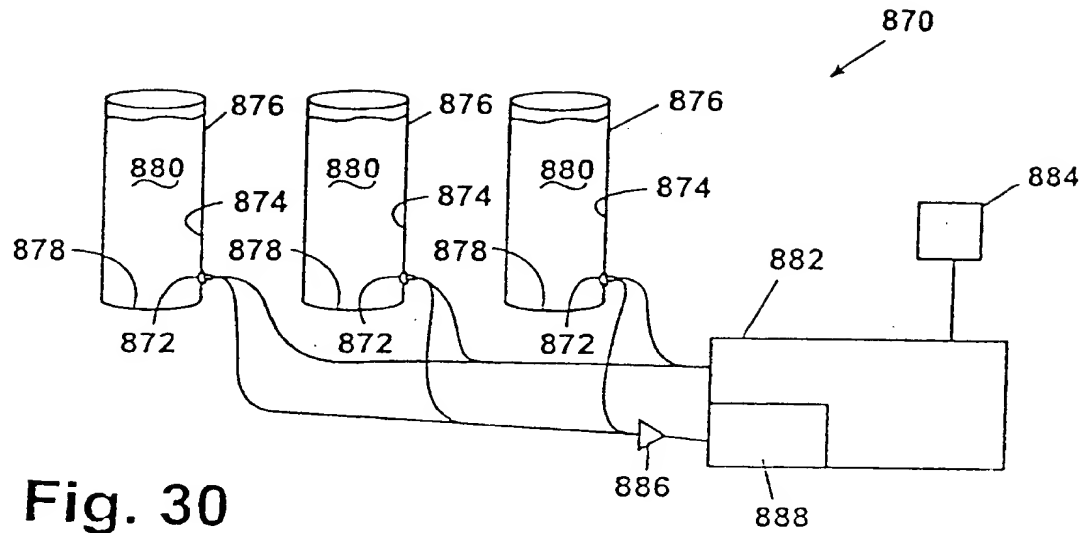
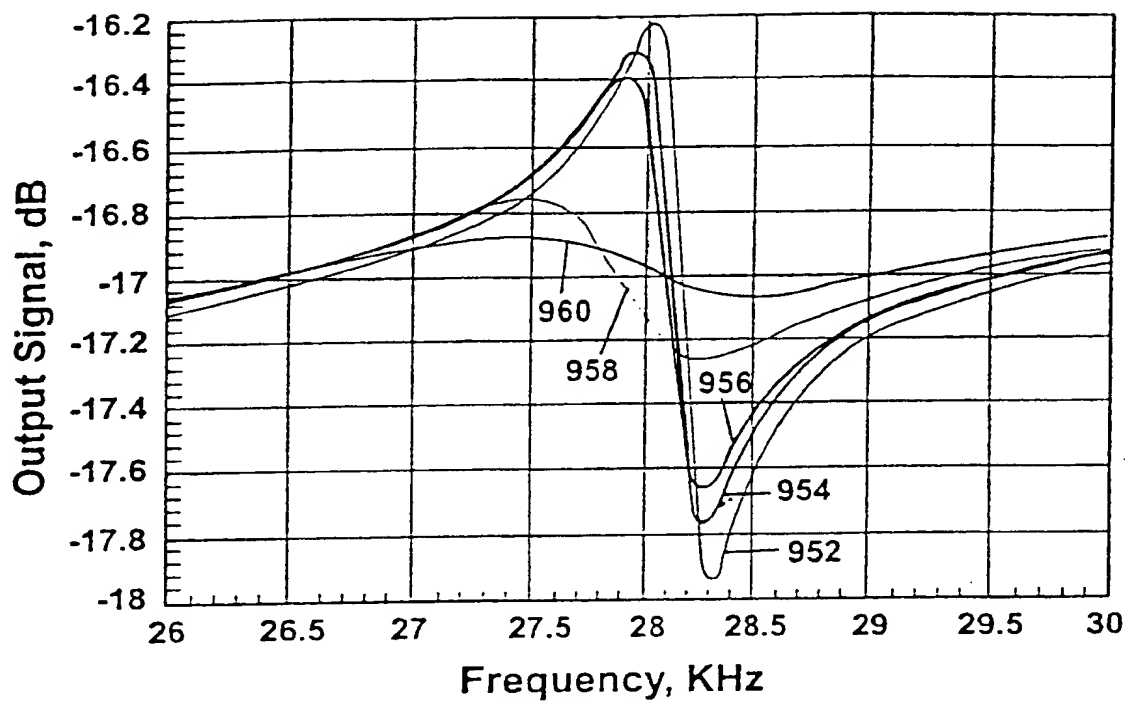
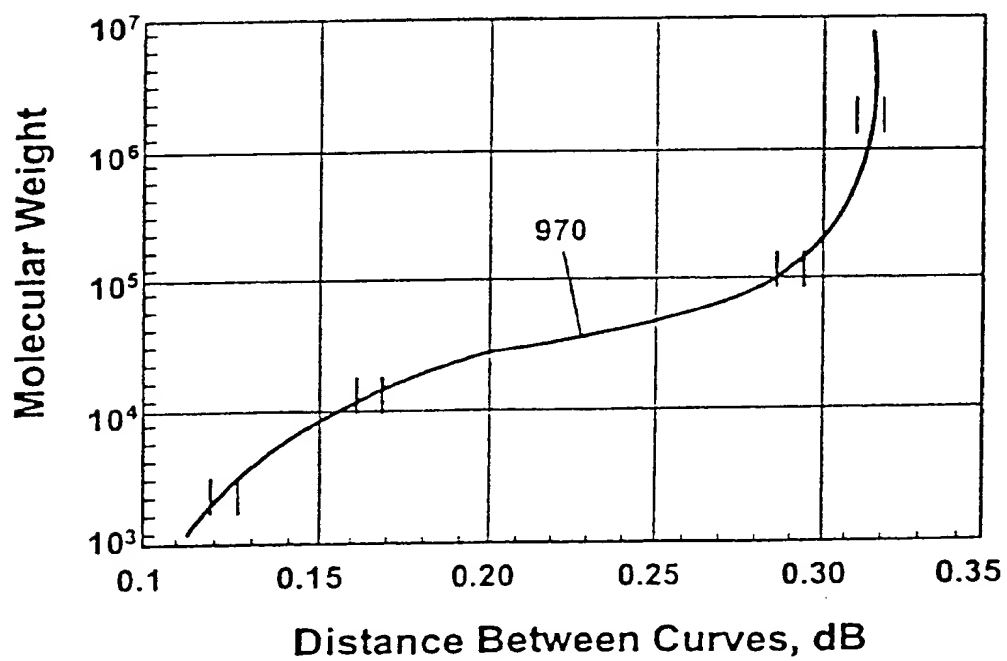
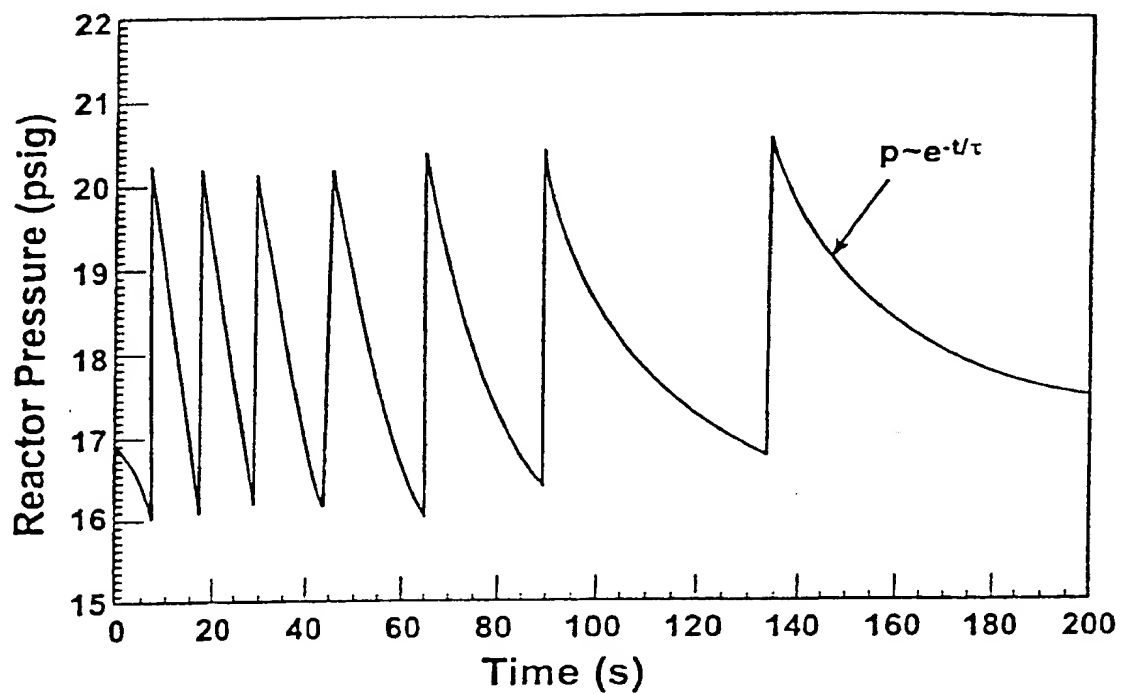
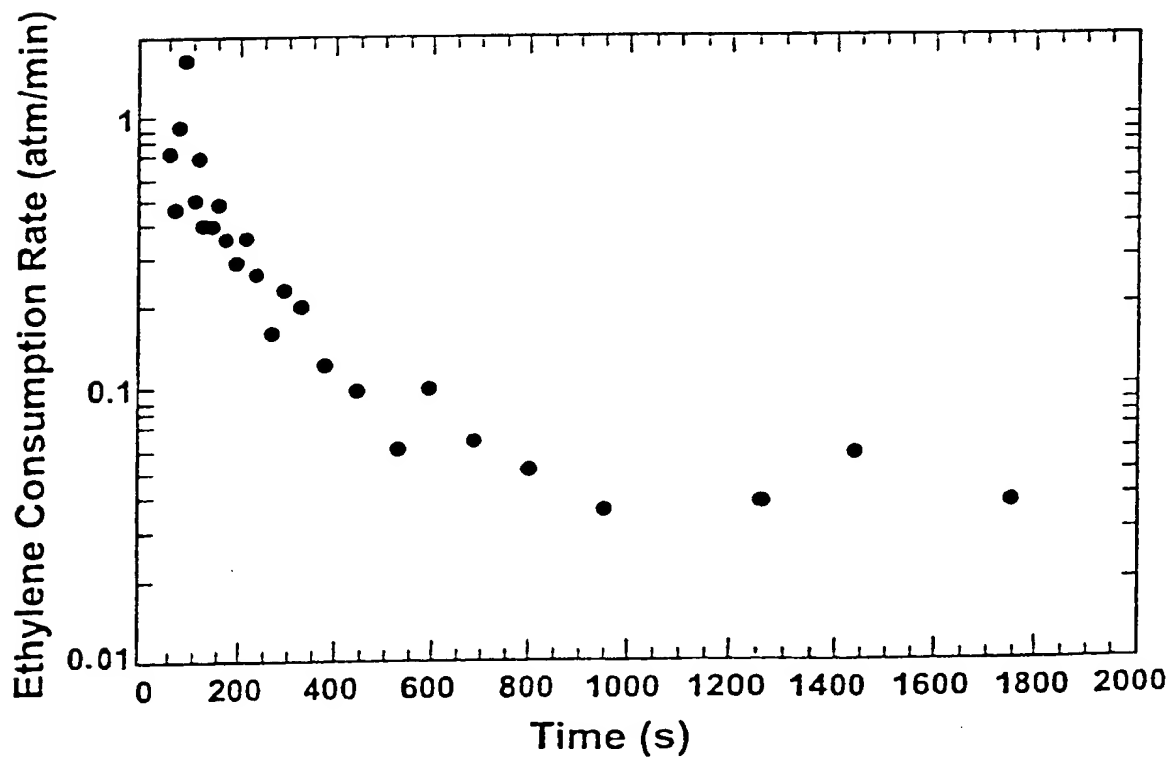


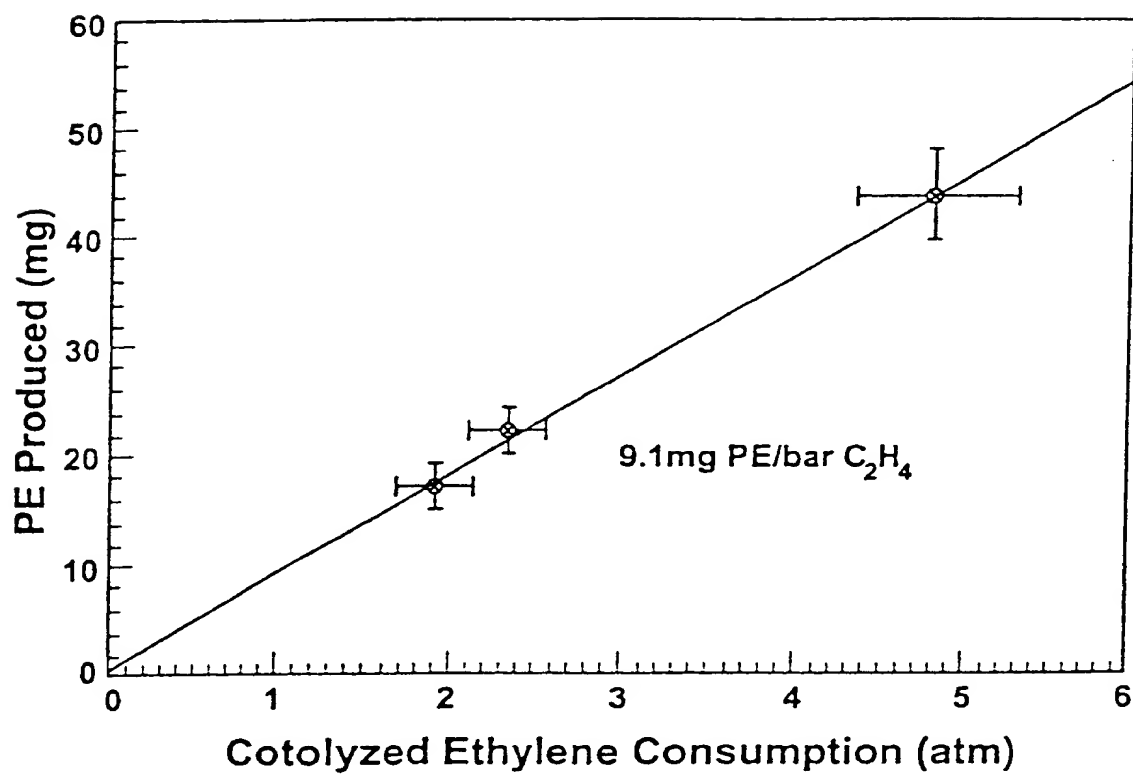
Fig. 29

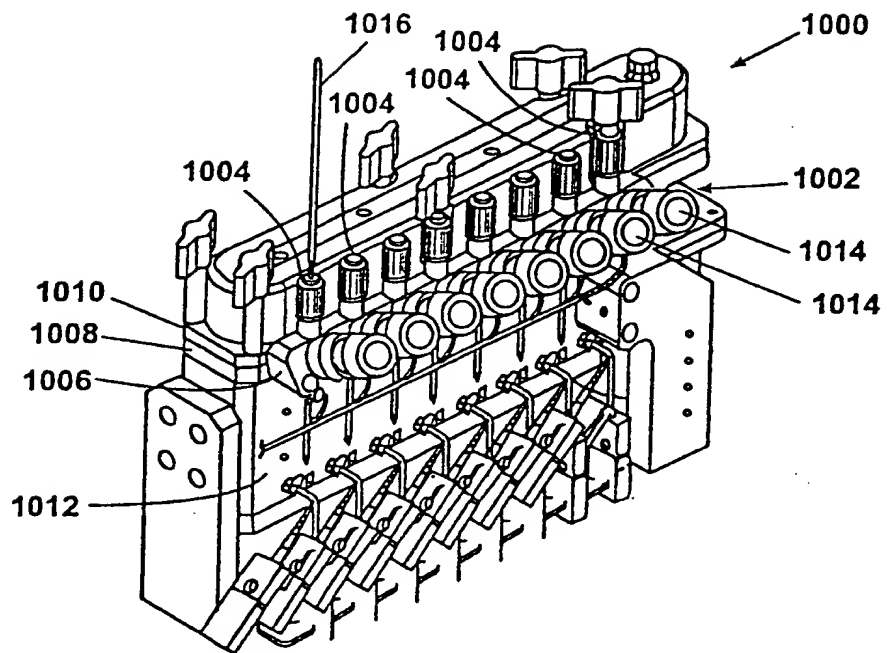
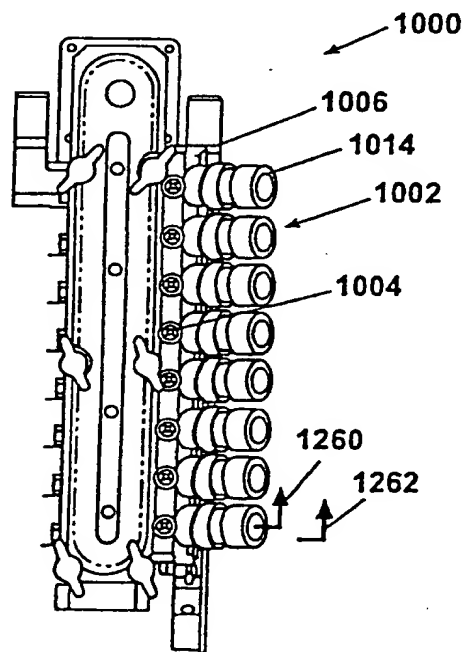


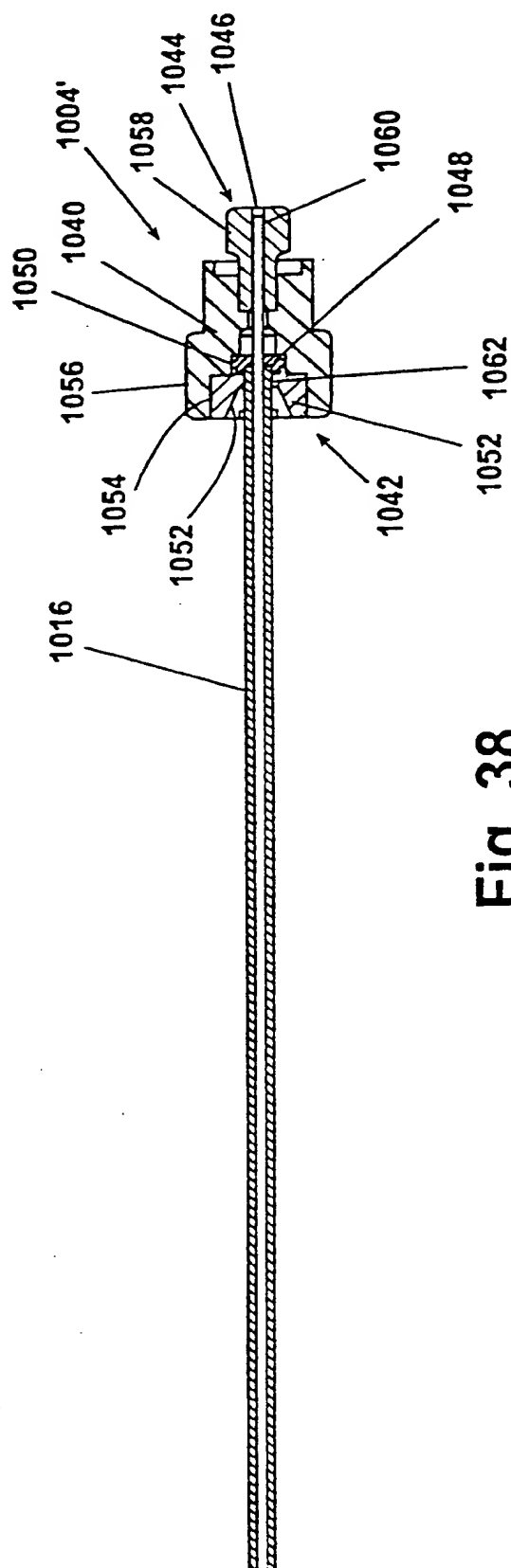
**Fig. 32****Fig. 33**



**Fig. 34****Fig. 35**

**Fig. 36**

**Fig. 37****Fig. 46**



**Fig. 38**

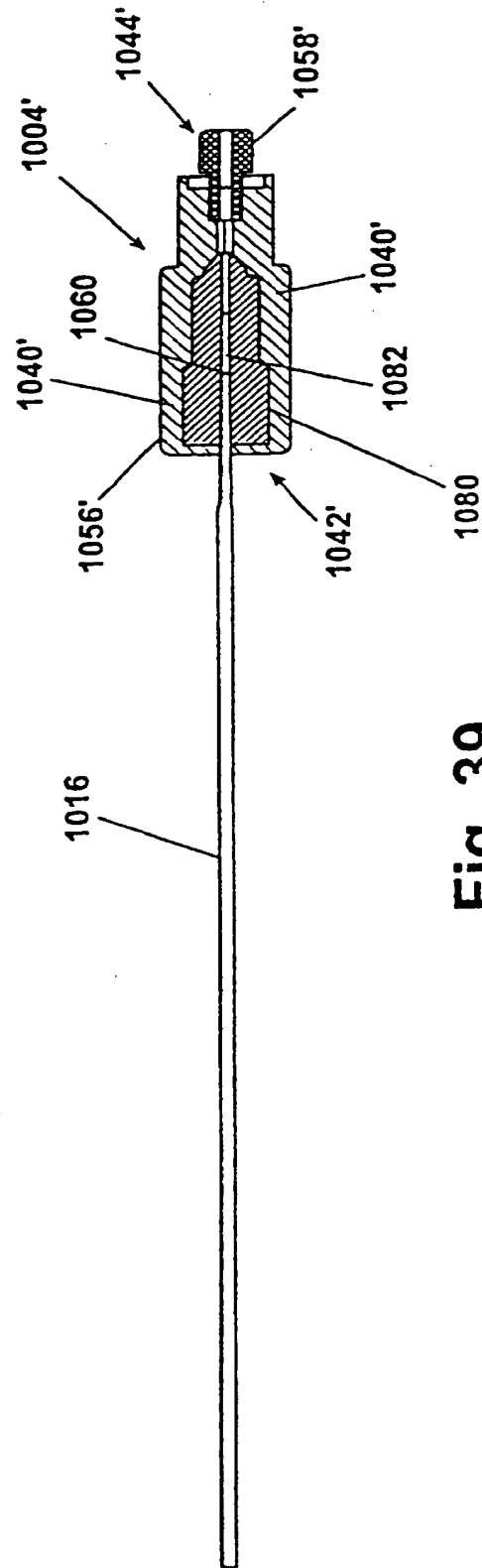
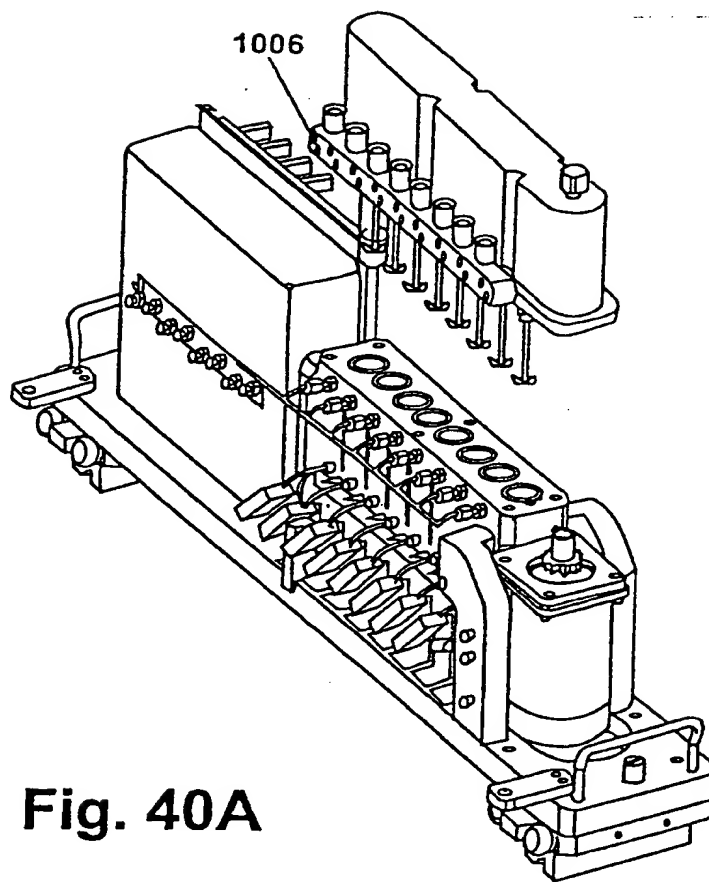
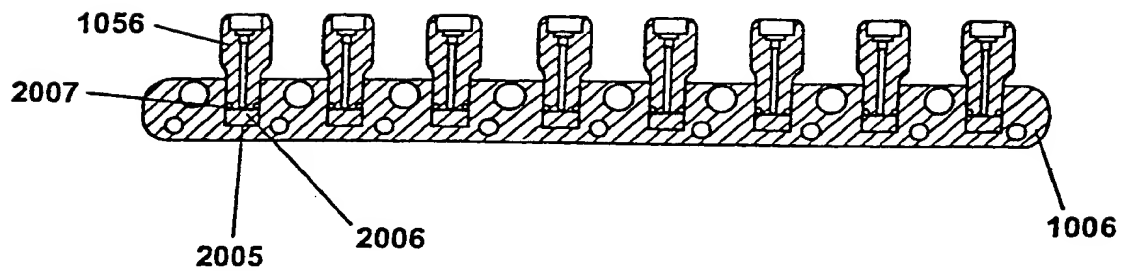


Fig. 39



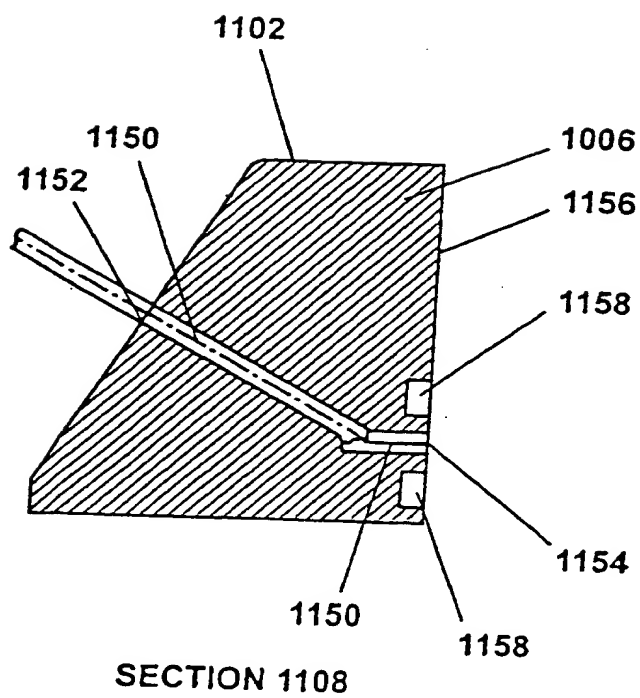
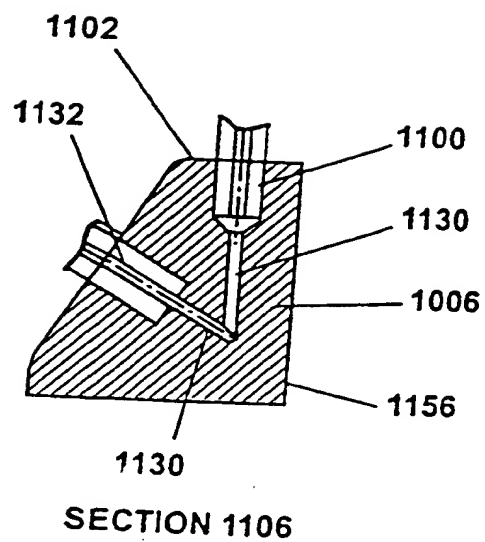


**Fig. 40A**



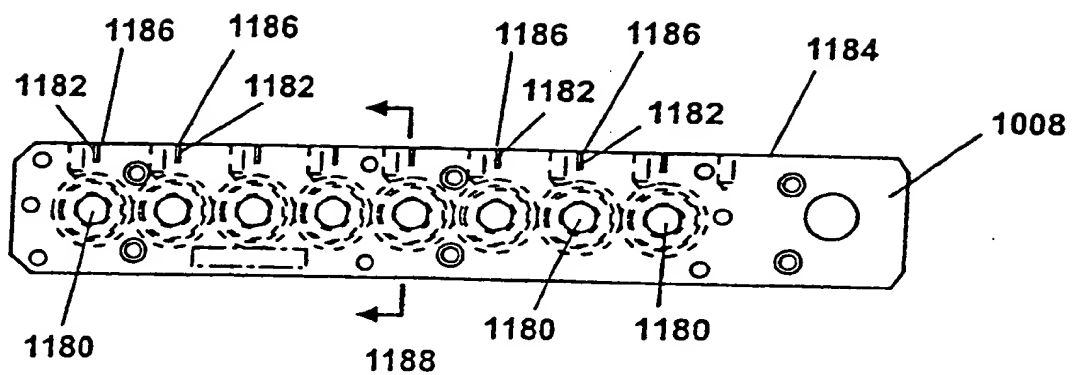
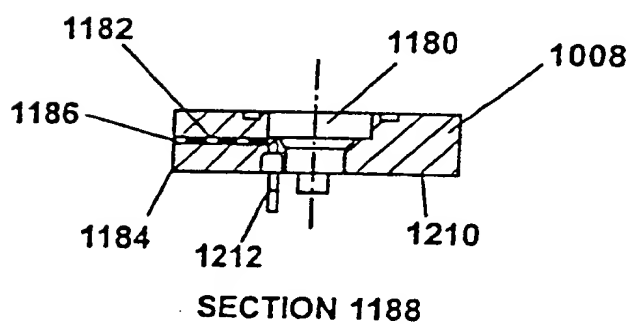
**Fig. 40B**

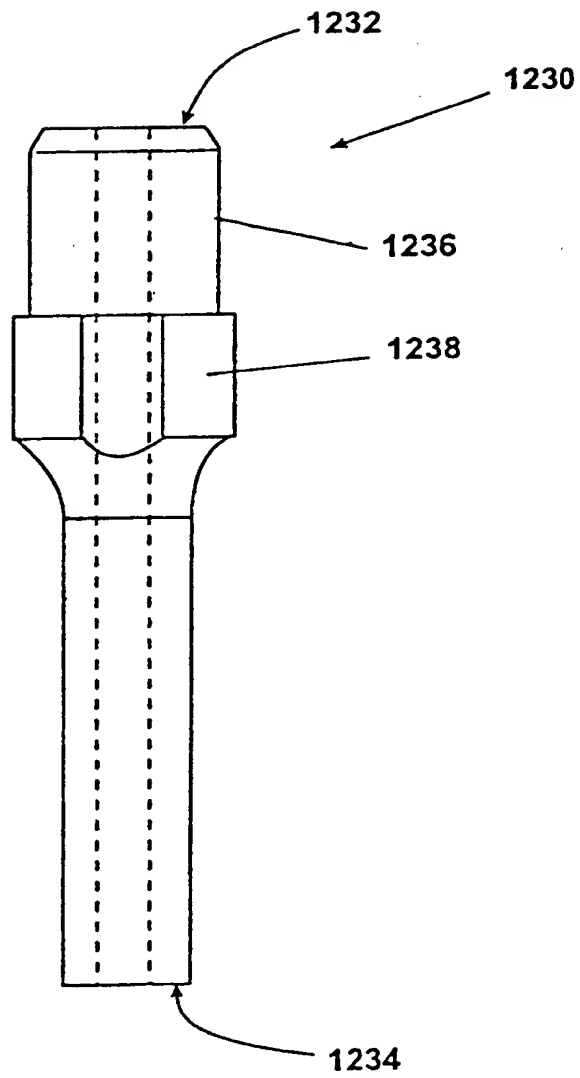
**Fig. 41**



**Fig. 42**



**Fig. 43****Fig. 44**



**Fig. 45**

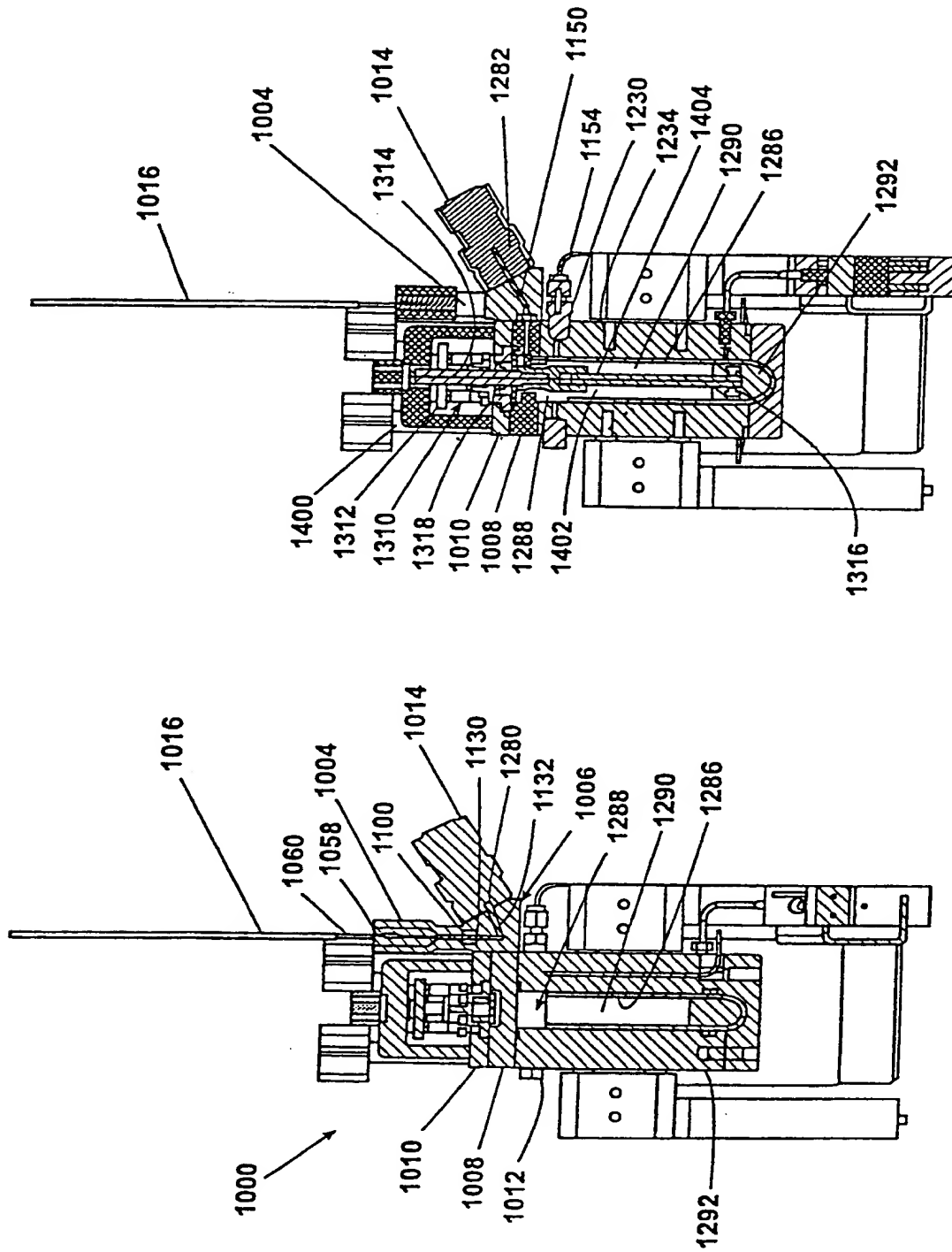
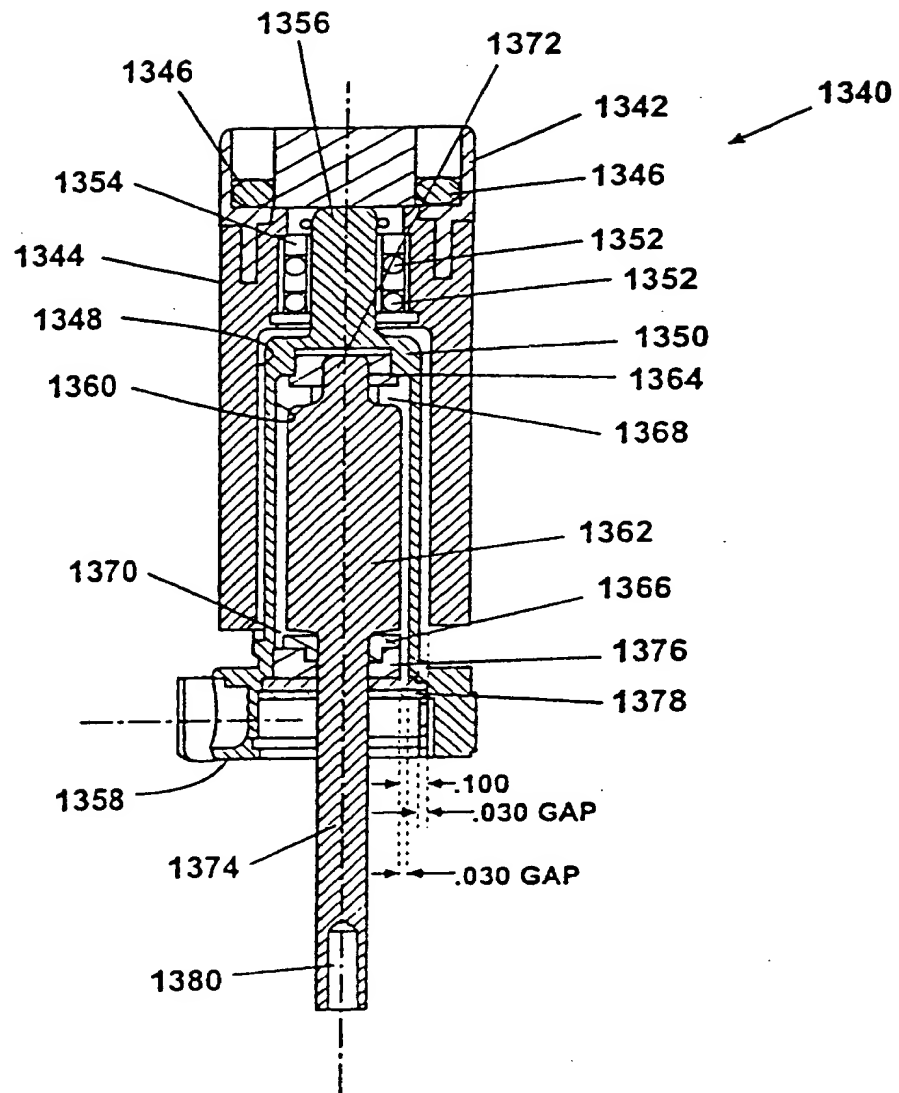
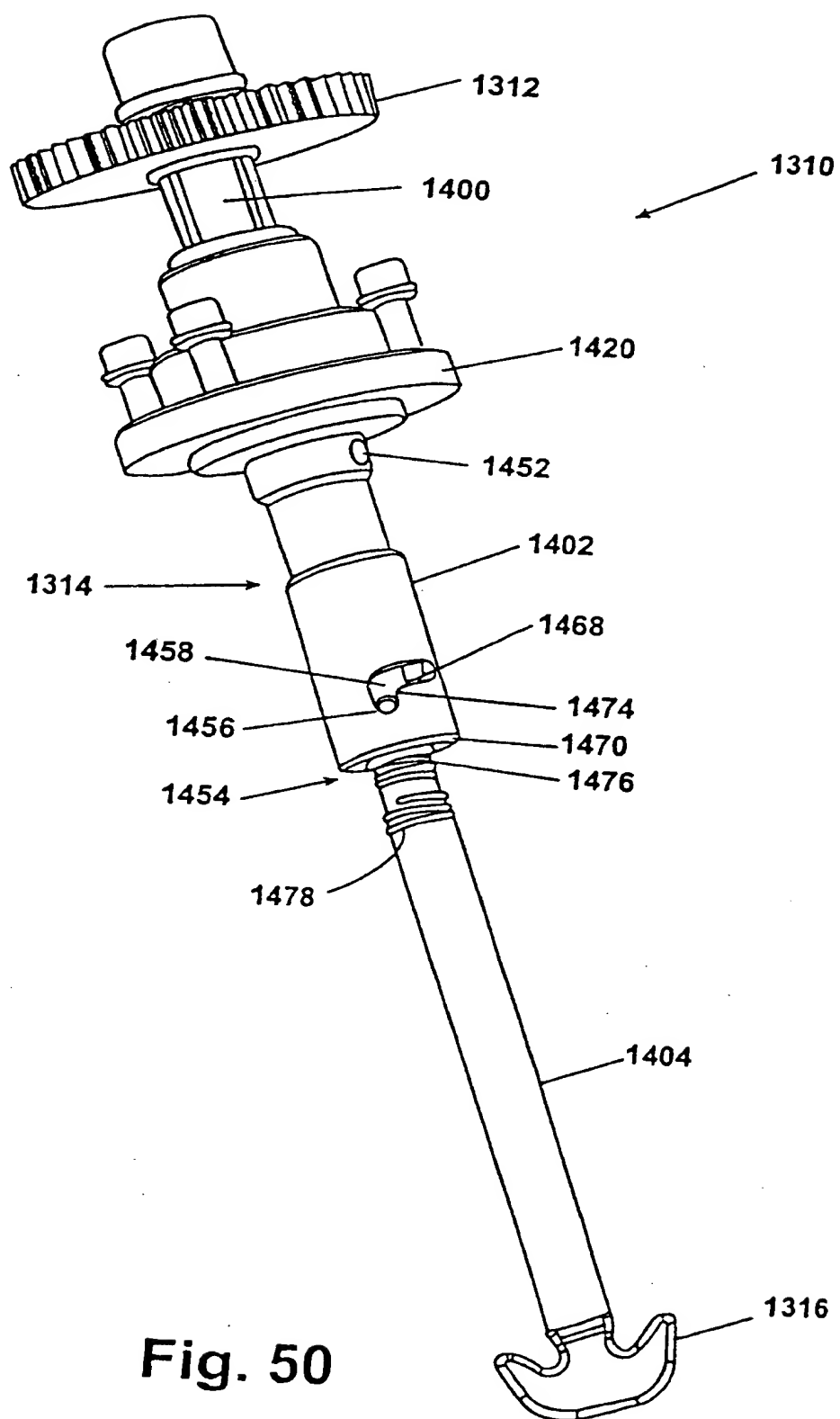


Fig. 48

Fig. 47

**Fig. 49**

**Fig. 50**

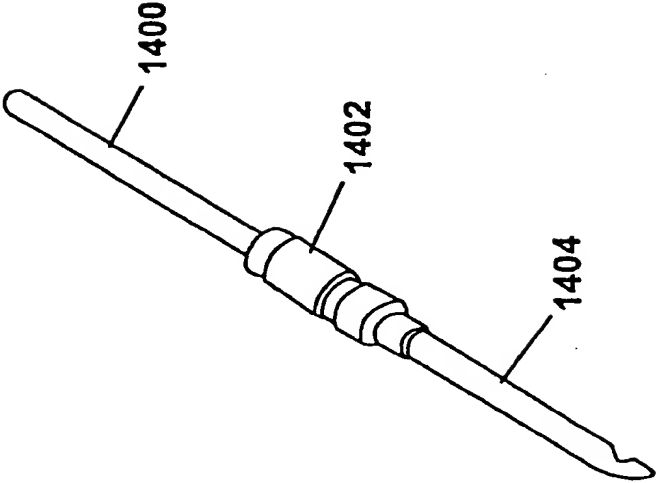


FIG. 50A

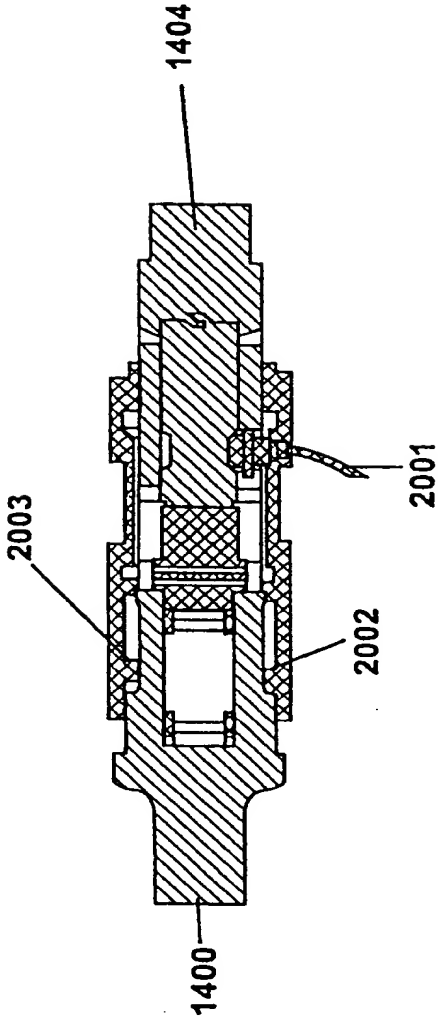
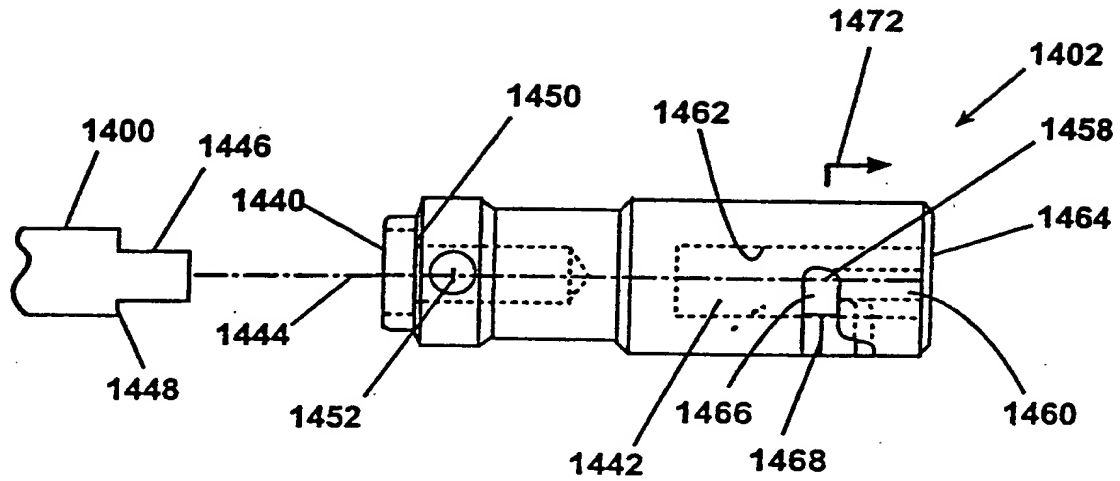
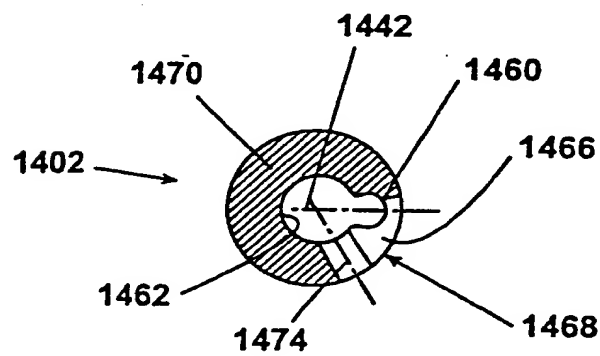


FIG. 50B

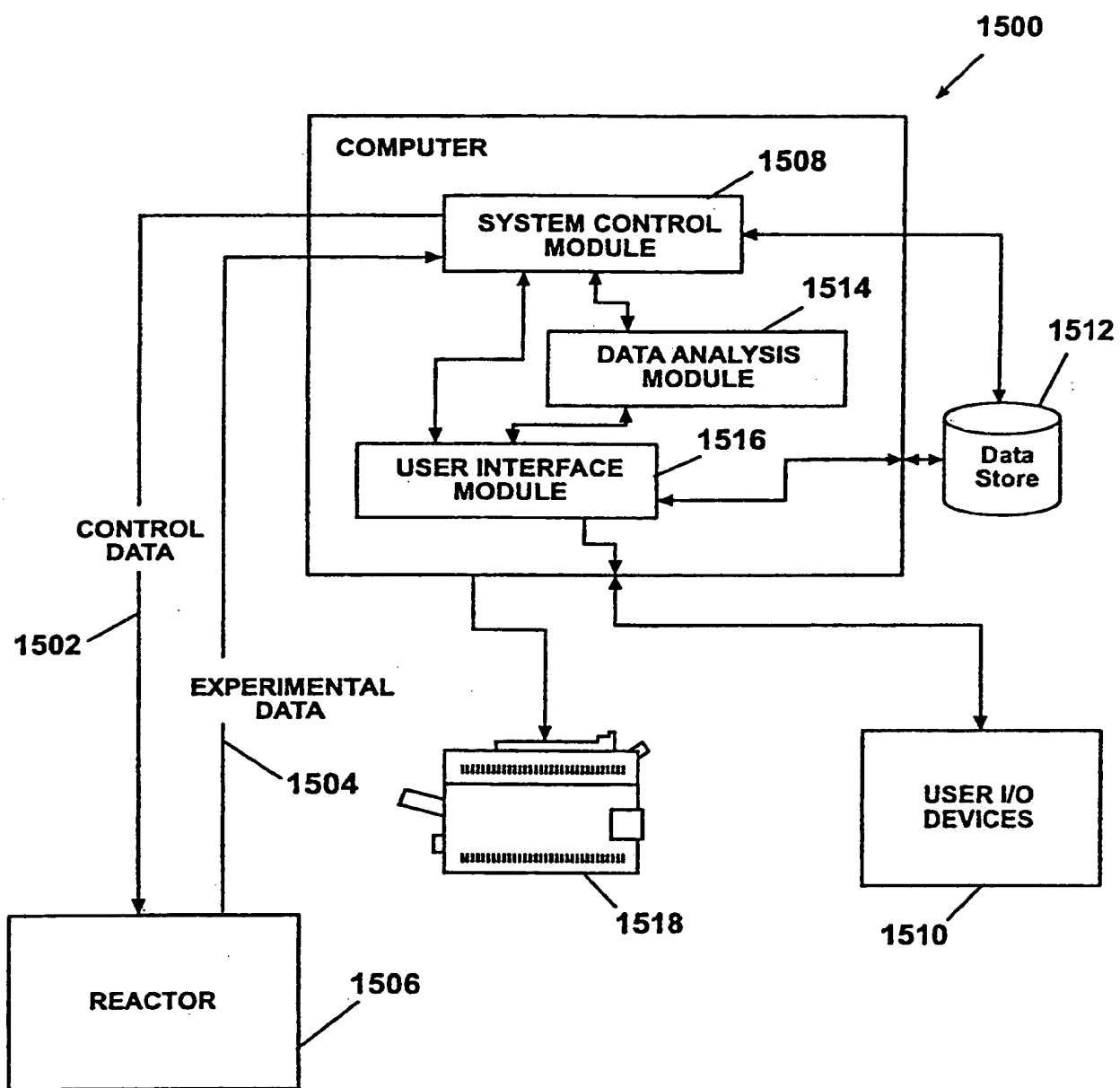


**Fig. 51**

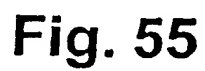


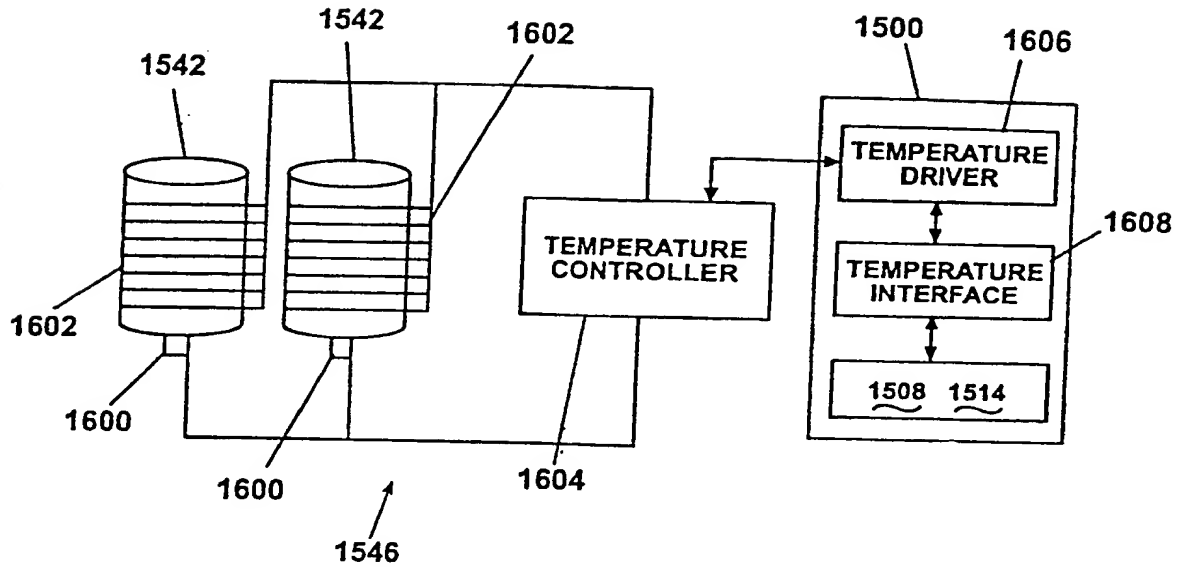
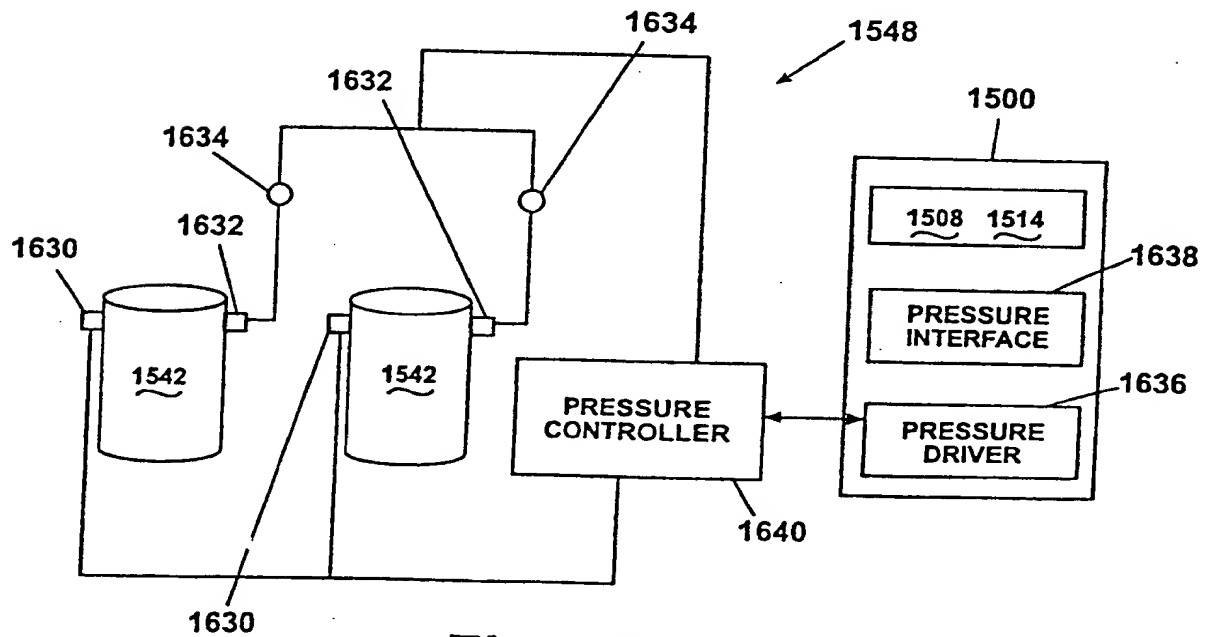
**SECTION 1472**

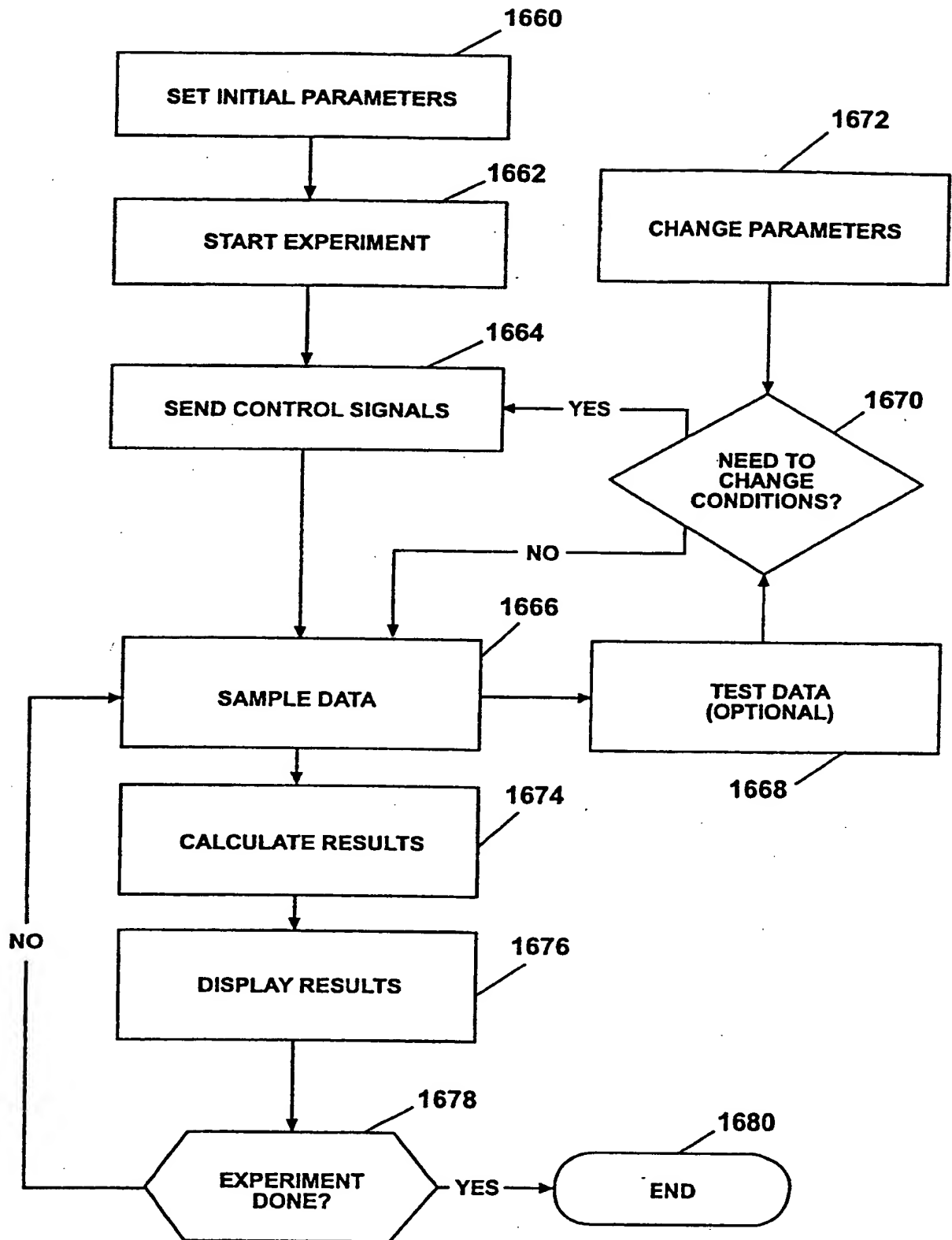
**Fig. 52**

**Fig. 53**





**Fig. 56****Fig. 57**

**Fig. 58**

1700

System Configuration

Hardware Components

System Limits

File Directories

Motor Cards

Card 1 1 Axes

Card 2 0 Axes

Thermocouple Controller

Controller 1 1 Loops

Controller 2 0 Loops

Pressure Sensor

# of Channels 48

OK

Cancel

Apply

FIG. 59

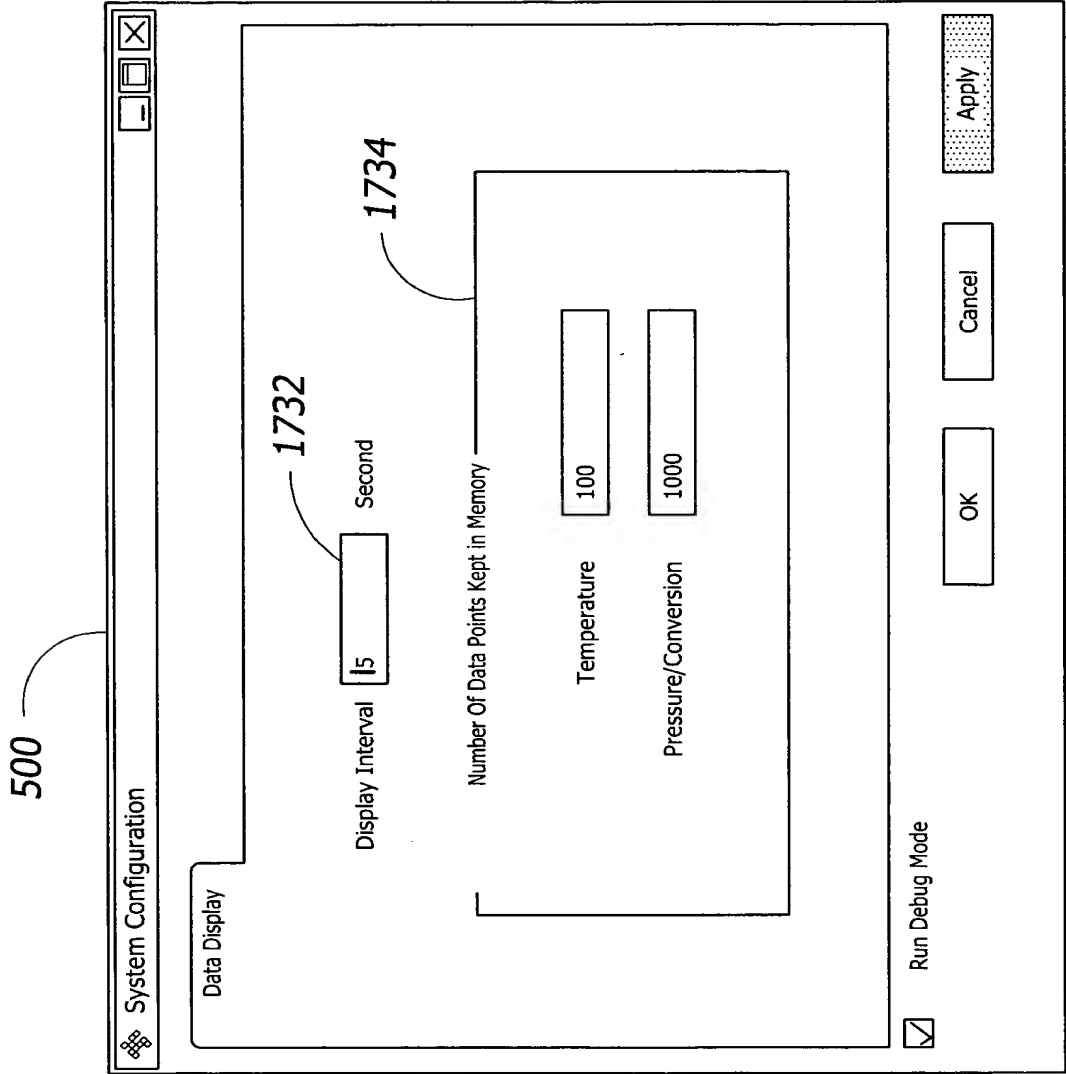


FIG. 60

1760

Reactor Setup

Motor

Experiment Time

60

Minute

1762

Speed

2

RPM

Safety Limit (RPM): 3200

☒ Single Direction

☐ Dual Direction

Heater

1772

Set Point

200

F

1776

Safety Limit (F): 392

1768

Turn Off Temp.

10

F

Unit

F

Mode

Manual

Sample Rate

0.02

Hz

1770

Maximum (Hz): 0.1

Pressure

P<sub>set</sub>

100

psi

Safety Limit (psi): 100

Sample Rate

5

Hz

Maximum (Hz): 5

1774

Load Defaults

Save as Defaults

Apply

Cancel

FIG. 61

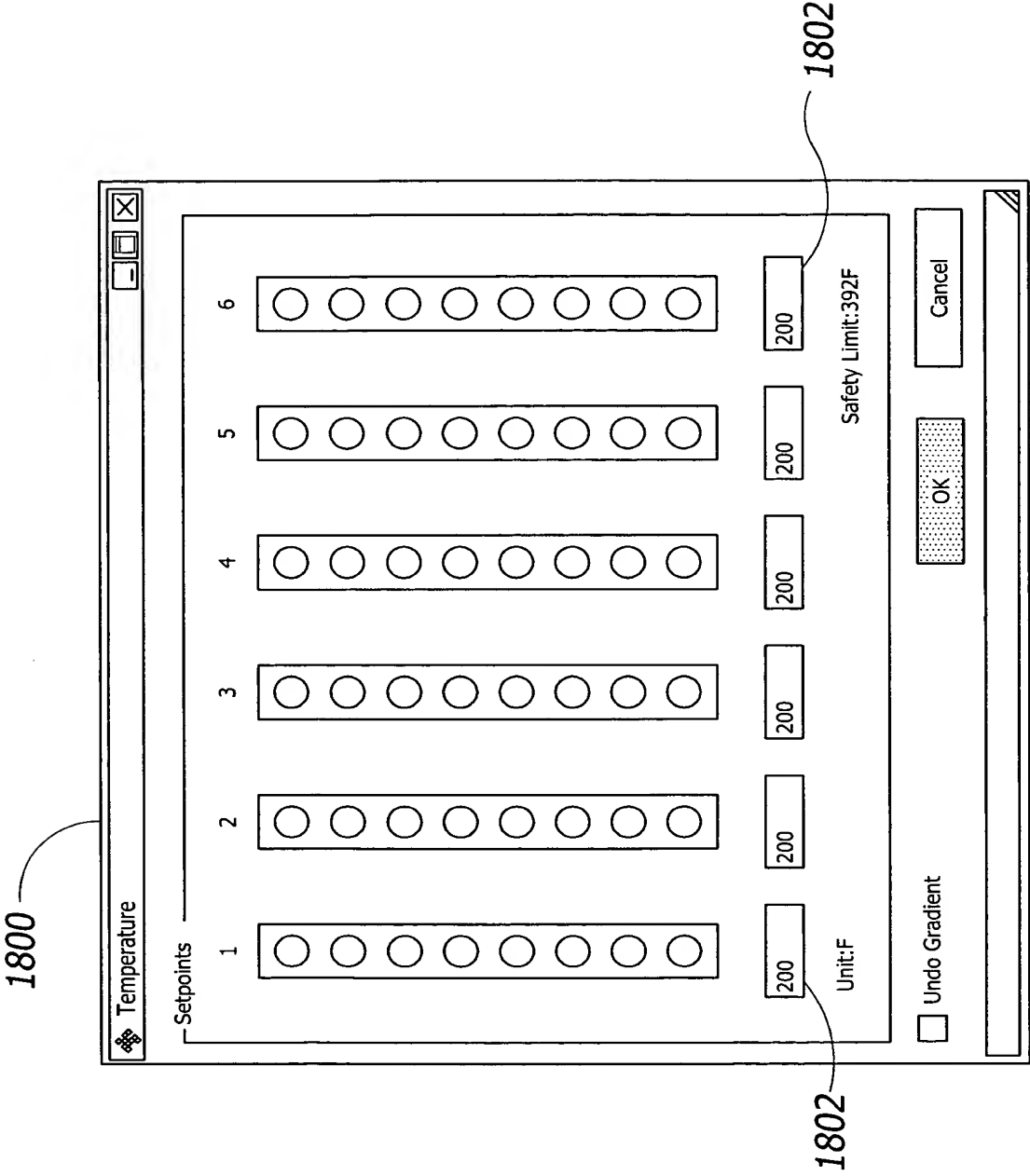
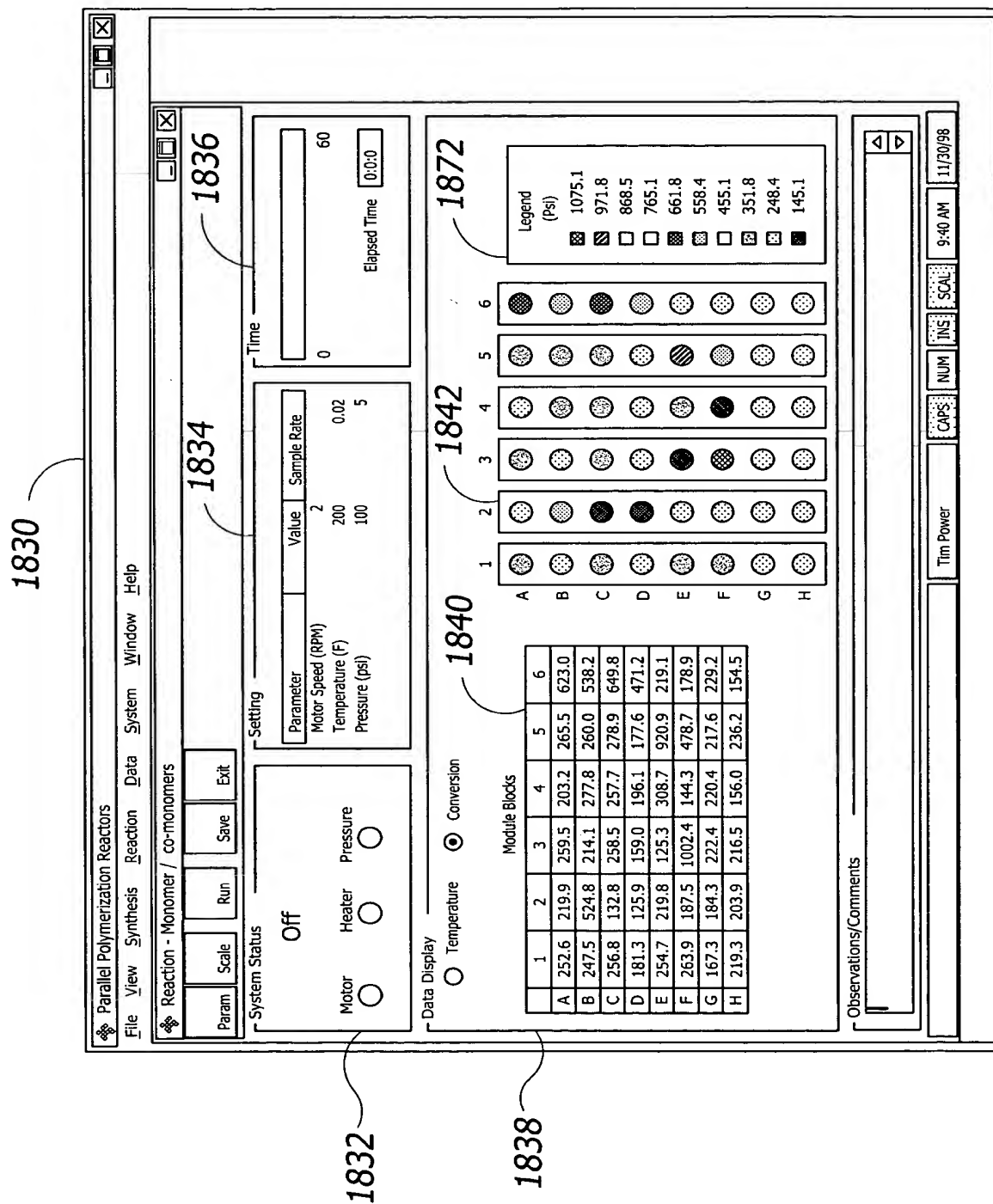


FIG. 62





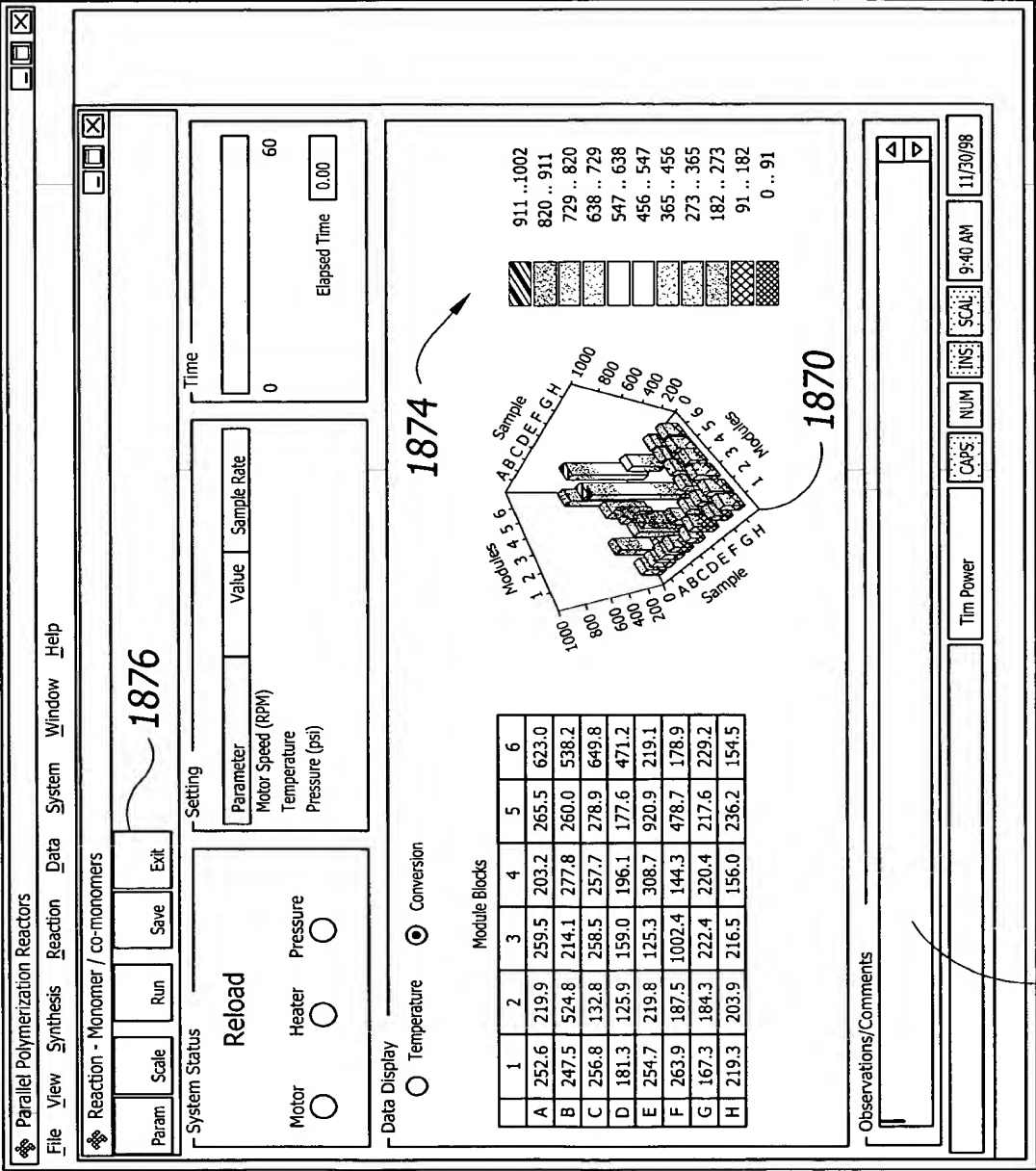


FIG. 64

1878

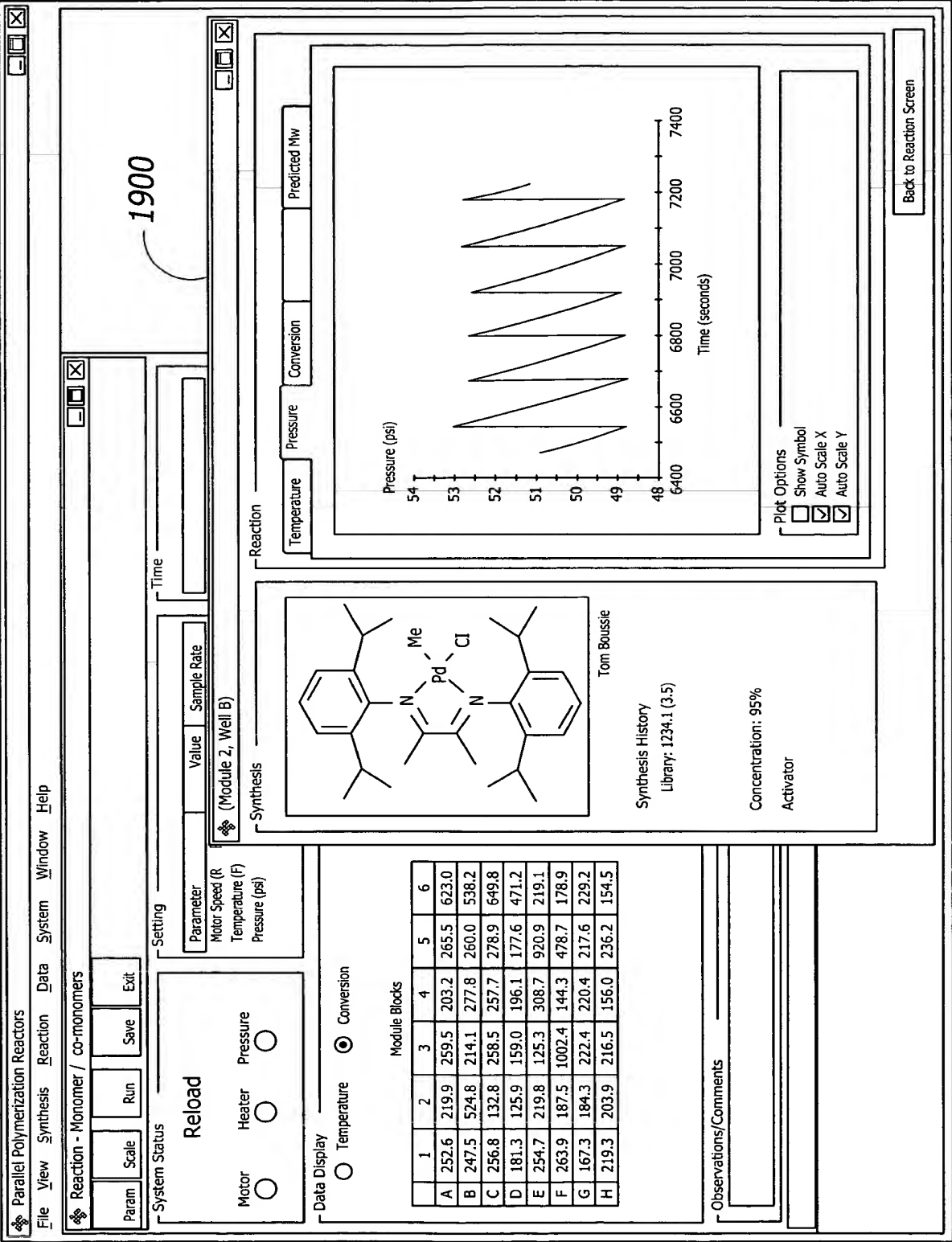


FIG. 65

FIG. 66

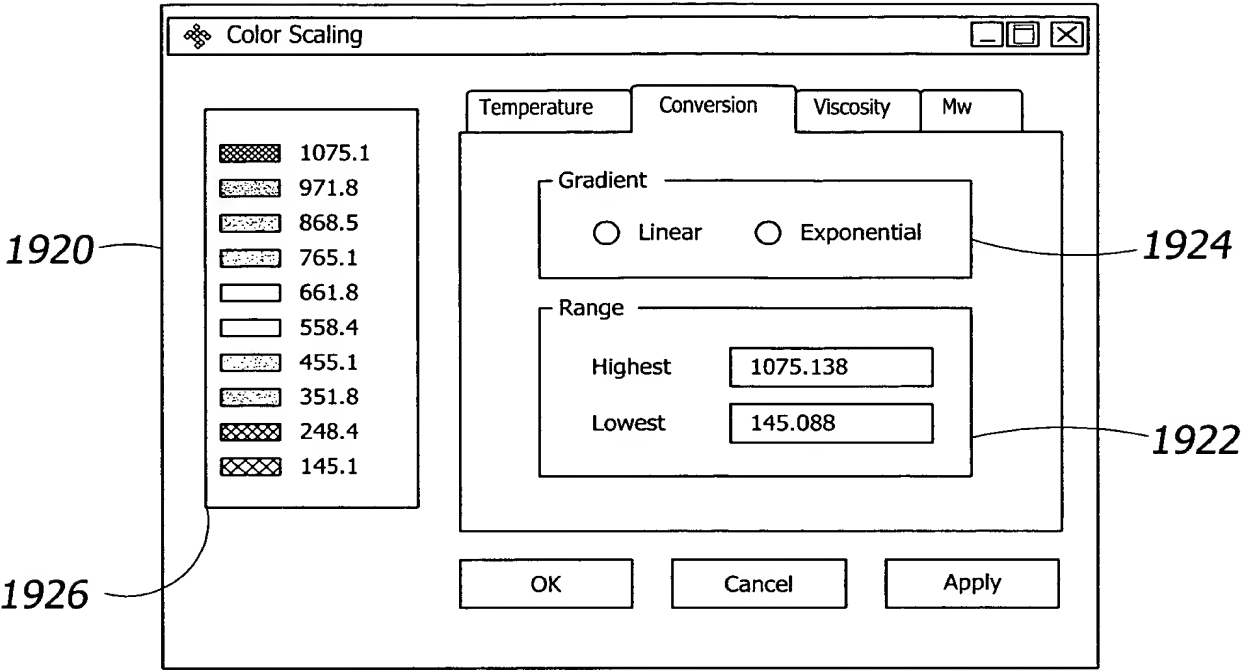


FIG. 67

